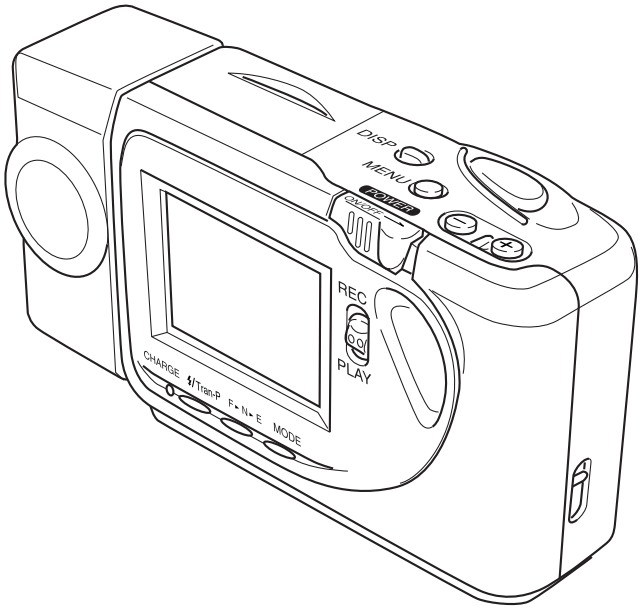
SERVICE MANUAL & PARTS LIST (without price)

QV-770

(KX-773)

APR. 1998



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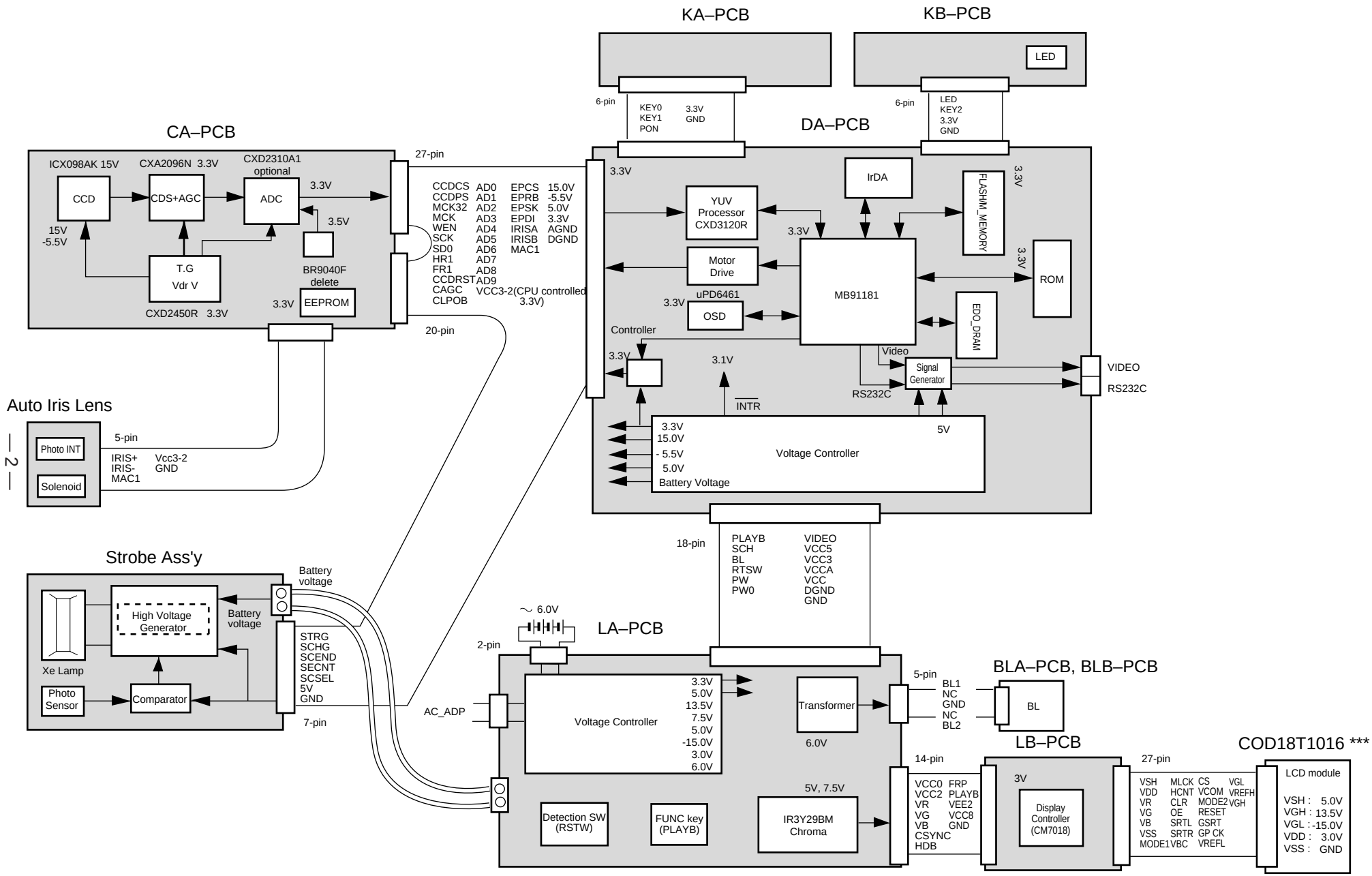
SPECIFICATIONS

Item	Specification
Recording System	Digital (JPEG base); PC Link software can be used to input images in CAM, JPEG, TIFF and other format.
Signal System	NTSC
Recording Medium	Flash memory (4 MB)
Memory Capacity	FINE; 30 images (Approx. 124 KB compressed) NORMAL; 60 images (Approx. 62 KB compressed) ECONOMY; 120 images (Approx. 32 KB compressed)
Imaging Element	1/4-inch CCD (Total Pixels: 350,000; Effective Pixels: 330,000)
Lens	Fixed focal point with macro position; F2, f = 3.9 mm
Focus Range	NORMAL: 70 cm to ∞ MACRO: 14 cm to 16 cm (From surface of protective lens)
Light Metering	TTL center priority by CCD
Exposure Metering	Program AE, Aperture Priority AE
Exposure Range	EV +5 to 18
Exposure Correction	–2 EV to +2 EV (1/4 EV units)
Shutter	CCD shutter
Shutter Speed	1/8 to 1/4000 second
White Balance	Automatic, Fixed
Self-timer	10 seconds
Flash Modes	Auto Flash, Flash On, Flash Off
Resolution Modes	FINE, NORMAL, ECONOMY
Monitor/Viewfinder	1.8” TFT, low-glare color LCD (122,100 pixels)
Computer output image	640 × 480 pixels
Input/Output Terminals	DIGITAL OUT, VIDEO OUT, AC adaptor connector
Clock	January 1, 1997 00:00:00 to December 31, 2049 11:59:59 (Auto calendar)
Power Supply	Four batteries (AA-size alkaline or lithium batteries) /AC adaptor (AD-C620)
Power consumption	Approximately 6.8 W
Battery Life	Continuous Playback: Alkaline Batteries (LR6); Approx. 190 minutes Lithium Batteries (FR6); Approx. 320 minutes Continuous Recording: Alkaline Batteries (LR6); Approx. 690 shots Lithium Batteries (FR6); Approx. 1,430 shots **Note:** The values noted above indicate the number of hours before battery failure under normal operating temperature (25 °C), as estimated by battery manufacturers. These values are for reference only, and do not guarantee that any particular set of batteries actually will provide the service life indicted. Low temperatures shorten battery life.
Dimensions	129(W) × 66(H) × 38(D) mm
Weight	Approximately 200 g
Accessories	Wrist strap, soft case, Alkaline batteries (AA-size × 4), Video cord

BLOCK DIAGRAM



ADJUSTMENT

1-1. Loading color parameter

Execute when replacing camera unit
Load parameter in memory of camera unit. (Light box not needed.)

(1) Set QV-770 to “PLAY” mode. (Computer communication does not work in “REC” mode.)
(2) Connect QV-770 and PC with link cable RS-232.
(3) Operate adjustment software on MS-DOS.
PON773E. EXE
(4) Make sure PC’s monitor indicates that loading parameter is complete.

Note: When done continue the program in the following order.
1. DEFECT CORRECT
2. STROBE ADJUST

```
************************************
*       Prameter Installer         *
*            for KX-773            *
*             Ver 1.60             *
************************************
```

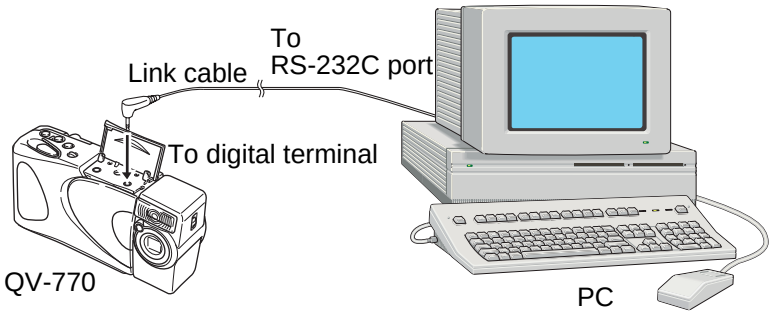
[OK]
Loading Parameter to Flash Memoty....OK.
Verifying data.....OK.
Adjustment complete.

[NG] (example 1)
Display when Failure occurs.

* * * Time Out Error * * *

[NG] (example 2)
Verify error unable to load parameter.
Check camera.

Notes: • When NG is displayed check connections and settings.
• Use AC adapters.



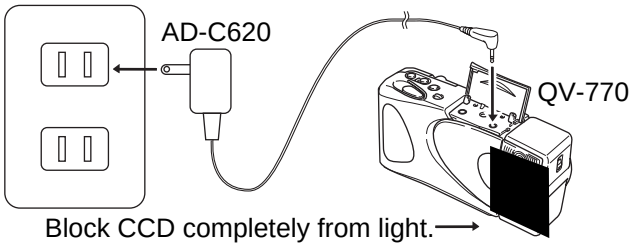
1-2. Defect correct

When there is a blurred black dot in a white display it is called a defect.
To correct this use the data next to this.

• Perform this adjustment after loading color parameters.

(1) Set QV-770 to “REC” mode.
(2) Start test program. (Refer to “1-8. Test program”.)
(3) Choose “DEFECT CORRECT” from test program and execute.
(4) Make sure “□” mark on LCD turns from red to blue.
(5) Turn power off.

Notes: • Make sure no light goes through CCD.
• As the adjustment data is written in the EEPROM by the POWER switch operation, do not forget to turn it off using the switch.
• Pixel compensations are performed up to two pixel defects.
• The compensation data is deleted once you exit the mode.



1-3. Strobe adjust

Execute after replacing strobe and loading color parameter, because strobe adjustment informations are deleted.

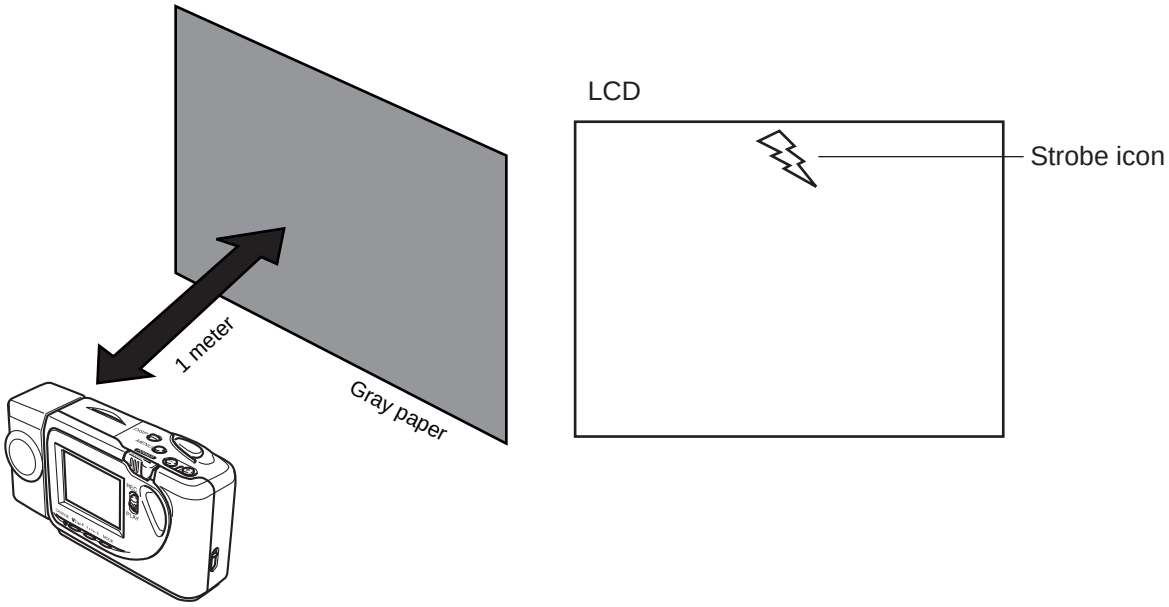
• Loading color parameter and Defect correct should be done before.
• Distance between strobe lens and gray paper should be one meter.
• The adjustment must be done in a dark room.
• For gray paper use Superior Oxford Gray No.22. (Note: Use lighter color surface of the paper.)
• The two sizes listed below are available as spare parts. (Can also found in camera store.)

Code No.	Name	Specification
1904 5411	Gray paper of Superior Oxford	No.22 (1.75 × 2.7 m)
1904 5412	Gray paper of Superior Oxford	No.22 (2.72 × 11 m)

• For power supply use AC adapter.

(1) Set QV-770 to “REC” mode.
(2) Start test program. (Refer to “1-8. Test program”.)
(3) Choose “Strobe adjust” from test program and execute.
(4) Shoot a picture of a specified gray paper. Flash icon should be red before shooting.
(5) Make sure that the flash icon on LCD turns from red to blue.
(6) Turn power off.

Note: As the adjustment data is written in the “EEPROM” by the “POWER” switch operation, do not forget to turn it off using the switch.



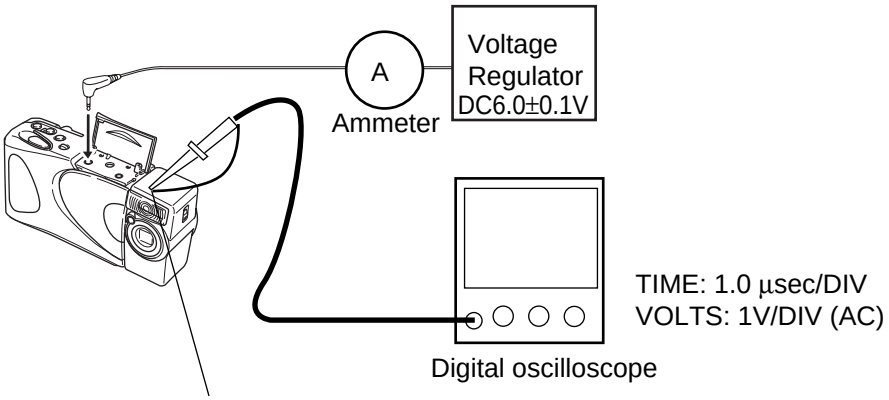
✻ Gray paper should be larger than 1.5 m (H) × 2.0 m (W).

1-4. Strobe check

Checking if there is a false operation triggered by a distorted waveform when using strobe.

- Set strobe adjustment.
- Input DC in 6.0 ± 0.1 V.

(1) Set QV-770 to “REC” mode.
(2) Monitor the trigger waveform on digital oscilloscope and check the display.
(3) Automatically recharged after shooting picture.
Make sure that the DC in 6.0 V current does not exceed 1.2 A.
(4) Set QV-770 to “PLAY” mode and check the display.
Should not be white or too dark.

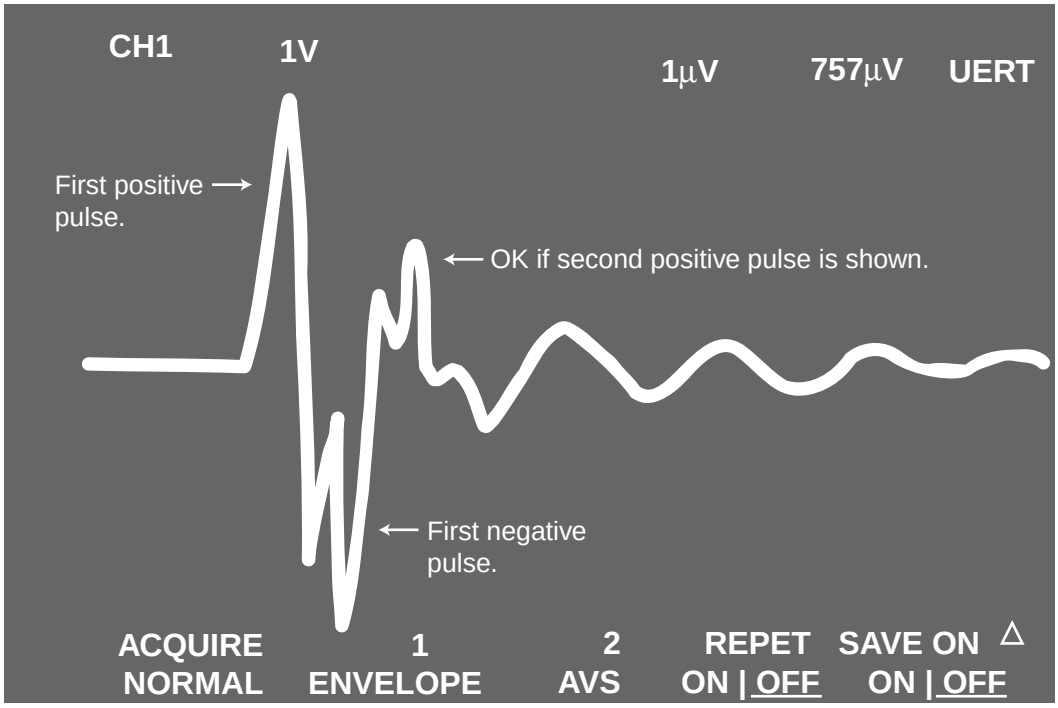


- Put oscilloscope probe on Camera unit.
- Earth of the probe should be hooked as shown above.

✻ If it is NG, make sure the wiring of strobe circuit.

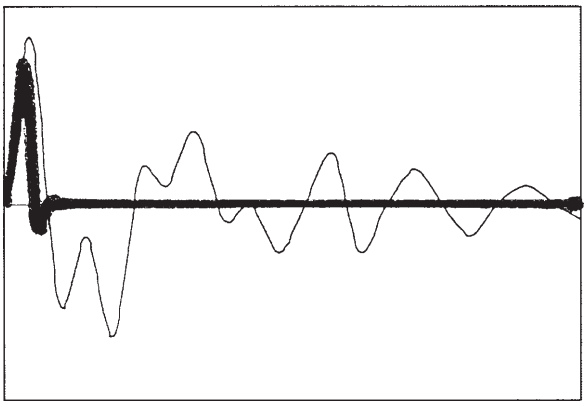
Strobe trigger waveform

1. Normal waveform TIME : 1 μ sec/DIV
   VOLTS : 1 V/DIV

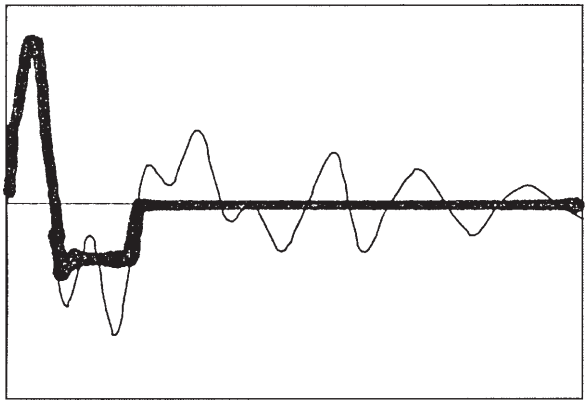


2. NG waveforms when trigger skipping occurs.

(1) When trigger skipping occurs on the first positive pulse.



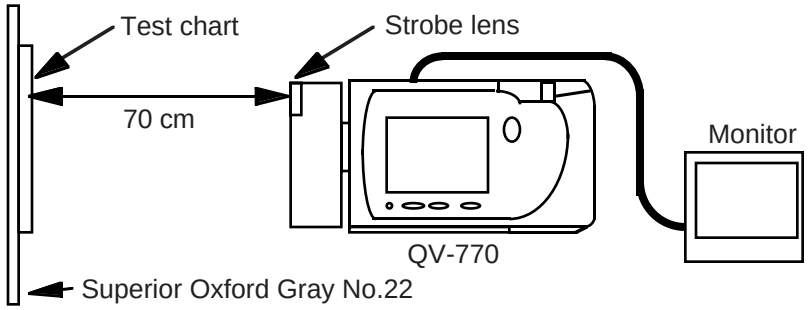
(2) When trigger skipping occurs on the first negative pulse.



1-5. Display appearance when using flash.

(1) Shoot picture with Normal F2.
(2) Shoot picture with Normal F8.
(3) Shoot picture with Macro mode Normal F8.
(4) Set QV-770 to “PLAY” mode and check the display.

Notes: • (1) and (2) should look alike. (3) should be darker than (2).
• (1) and (2) should not be white or too dark.
• QV-770 and test chart (Material that does not reflect) should be 70 cm apart.



1-6 Current consumption

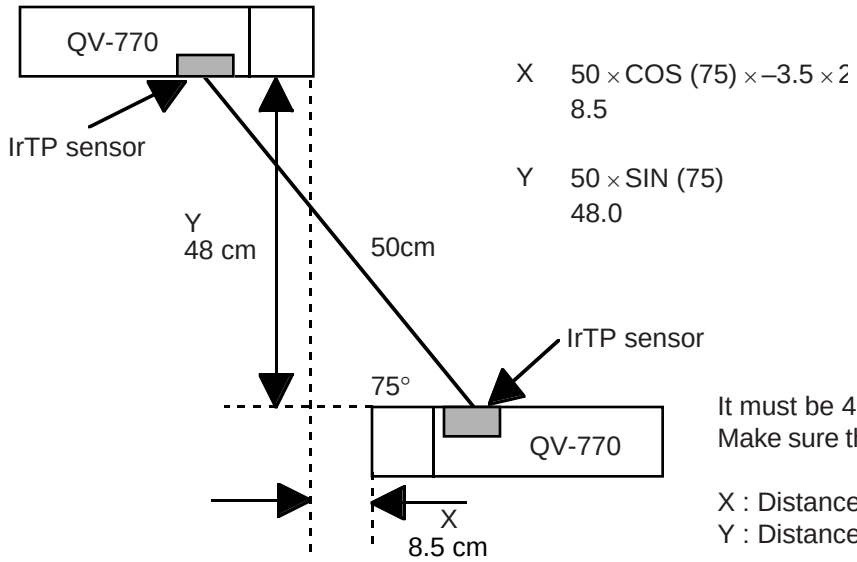
• Input DC in = 6.0 V ± 0.1 V.

(1) Set QV-770 to “REC” mode.
Maximum current consumption: 525 mA (Not including re-charge of strobe)
Example: Maximum current consumption in “PLAY” mode: 371 mA
(2) Reducing the input voltage from 6V, make sure that the battery warning changes at 5.0V ± 0.1 V input.

1-7 IrDA Test

(1) Make sure no sunlight comes in.
(2) Make sure there are no inverter light around.
(3) Use black cloth to cover jig.

After making the adjustments above make sure communication is possible at ± 15° and distance of 50 cm.
(Refer to User’s Manual for the infrared transport.)



X 50 × COS (75) × –3.5 × 2
8.5

Y 50 × SIN (75)
48.0

It must be 48 cm apart and lined up pararell.
Make sure that TRANP communication is possible.

X : Distance between camera case edges.
Y : Distance in straight line.

1-8. Test program **Classified**

1. Standard test program

1. 10STEP
2. COLOR BAR
3. CROSS HATCH
4. 50 PER. WHITE RASTER
5. GRAY RASTER
6. CLACK
7. APO OFF
8. IR TEST MASTER
9. IR TEST SLAVE
10. SEND ENQ TEST
11. RECEIVE ENQ TEST

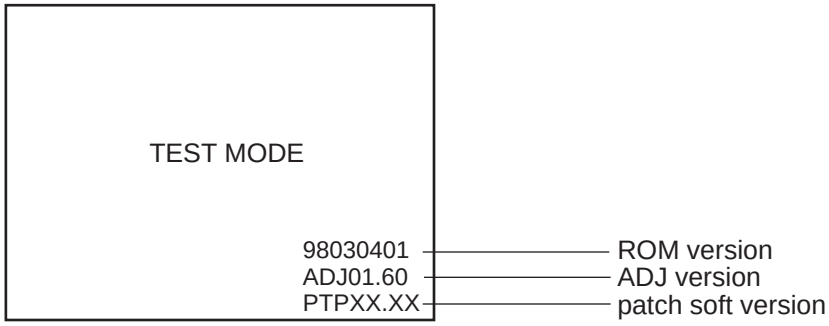
2. Special test program

1. STOROBE ADJUST
2. DEFECT CORRECT
3. BATTERY CHECK
4. KEY CHECK
5. LAST MEMORY SET

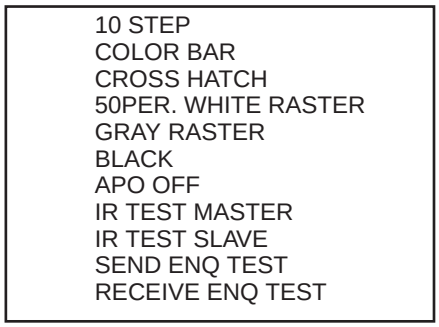
1. Standard test program (including QV-770 Built in ROM)

(1) Turn power on while pressing “DISP” and “SHUTTER” buttons.

(2) “WELCOME!” appears on the display followed by TEST MODE display.



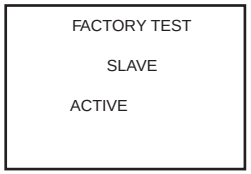
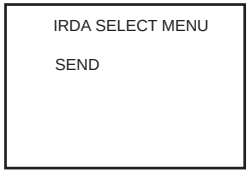
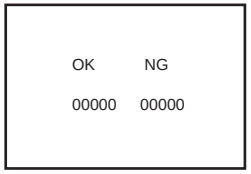
(3) Press “MENU” button and “Tran.P” button simultaneously to display the standard test program menu.



(4) Press “–” and “+” buttons to select. Press “SHUTTER” button to execute the test.

	(1) Transaction	(2) Display	(3) Check	(4) Supplement
1. 10-step black and white display	Displays black and white bar gradated in 11 steps	Displays 10-step black and white bar on the LCD and TV monitor	Utilized for brightness voltage and contrast adjustment on PCB-L.	When checking with an oscilloscope, terminate it with 75 ohm resistance. Returns to Test mode display by [+] or [–] buttons.
2. Color bar display	Provides color bar signal to the LCD and TV monitor (displays 75 % white level VIDEO signal)	Displays color bar on the LCD and TV monitor	Make sure that white level 75% color bar is outputted from VIDEO OUT terminal.	When checking with an oscilloscope, terminate it with 75 ohm resistance. Returns to Test mode display by [+] or [–] buttons.
3. Cross hatch display	Provides cross hatch signal to LCD and TV monitor (displays white line mesh on black display)	Displays cross hatch on LCD and TV monitor		When checking with an oscilloscope, terminate it with 75 ohm resistance. Returns to Test mode display by [+] or [–] buttons.
4. 50 percent white raster display	Provides brightness 50 % gray signal to LCD and TV monitor. Used for VCOM DC adjustment on PCB-L.	Displays brightness 50% gray color on LCD and TV monitor.	Refer to page 18 for VCOM DC adjustment on PCB-L.	When checking with an oscilloscope, terminate it with 75 ohm resistance. Returns to Test mode display by [+] or [–] buttons.
5. Gray raster display	Provides brightness 50 % gray signal to LCD and TV monitor	Displays brightness 50% gray color on LCD and TV monitor.		When checking with an oscilloscope, terminate it with 75 ohm resistance. Returns to Test mode display by [+] or [–] buttons.

	(1) Transaction	(2) Display	(3) Check	(4) Supplement
6. Black color display	Provides black signal to LCD and TV monitor (Black level of VIDEO standard)	Displays black on LCD and TV monitor.		Returns to Test mode display by [+] or [-] buttons.
7. APO OFF display	Disables Auto Power Off function. This function can be utilized in REC or PLAY modes.	Normal REC or PLAY modes		The unit returns to normal mode when power switch is turned off.
8. IR TEST MASTER display	Used for IrDA test together with IR TEST SLAVE. This test sends ENQ (OX ø5) signal for 2 seconds with 10ms interval (115Kbps data transfer speed).	FACTORY TEST MASTER ACTIVE Immediately after selecting IR TEST MASTER and pressed the shutter button. FACTORY TEST MASTER OK SUCCESS When the unit received ENQ signal. FACTORY TEST MASTER NG When the unit received a signal other than ENQ. FACTORY TEST MASTER NG TIMEOUT If there is no answer for 2 seconds.	Make sure that the display indicates OK.	This mode is disabled when the unit is turned off.

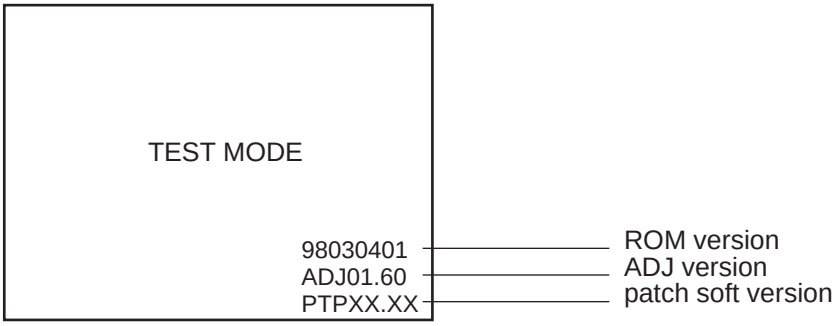
	(1) Transaction	(2) Display	(3) Check	(4) Supplement
9. IR TEST SLAVE display	Used for IrDA test together with IR TEST MASTER. This test sets the camera in standby mode to receive data. When the unit receives data, it sends back the data with 115Kbps transfer speed.		The unit does not show any change on the display since this is subsidiary mode for IR TEST MASTER.	This mode is disabled when the unit is turned off.
10. SEND ENQ TEST display	Used for IrDA test together with RECEIVE ENQ TEST. This test continuously sends ENQ (OXø5) signal with 10ms intervals (115Kbps)			The data transfer result is shown on the reception unit. This mode is disabled when the unit is turned off.
11. RECEIVE ENQ TEST display	Used for IrDA test together with SEND ENQ TEST. In this mode, the unit becomes receive standby status. When the unit receives a data, it discriminates if the data is ENQ signal. OK counter counts up when the unit receives 10 ENQ signals and NG counter counts up when the unit receives other signals than ENQ.		Discriminate the receiving operation by counting OK or NG counts.	This mode is disabled when the unit is turned off.

2. Special test program (including QV-770 Built in ROM)

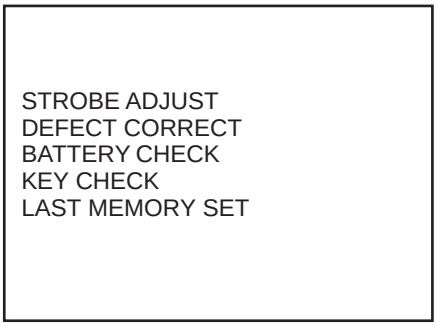
(1) Turn power on at REC mode, then press “Mode” button twice and change to “Serial Recording mode” then turn power OFF.

(2) Turn power on while pressing “DISP“ button and “SHUTTER” button.

(3) “WELCOME!” appears on the display followed by TEST MODE display.



(4) Press “MODE” button twice, then press “MENU” button and “Tran-P” button simultaneously to display the special program menu.



(5) Press “–” button and “+” to select. Press “SHUTTER” button to execute the test.

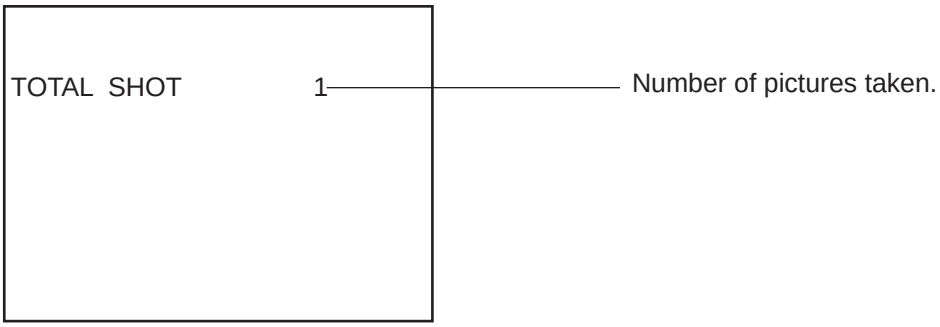
Note: • Refer to “1-3. Strobe adjust”.
• Refer to “1-2. Defect correct”.

Battery check

• Used when measuring battery life.

(1) After selecting Battery check set intervals for taking pictures. (Maximum 30 seconds)

(2) Press shutter button to enter “REC” mode. In this you can select Flash, or flash off or flash AUTO.



Notes: • TOTAL SHOT numbers will not remain in memory. (When batteries go dead they are deleted).
• Timers stop while WAIT is displayed. (1 shot takes 10 seconds). Does not mean 6 shots in one minute. Actually about 5.5 shots in one minut.

Key check

• Displays “Digital” values for key input.

```
20TIMES KEY SAMOLING
INTERVALS OF 10MS
PUSH ANY KEY!!
NO KEY
000 000 000 000 000
000 000 000 000 000
000 000 000 000 000
000 000 000 000 000
```

Note: • Number on display should be reference.

Last memory set

• Set last memory value to default.

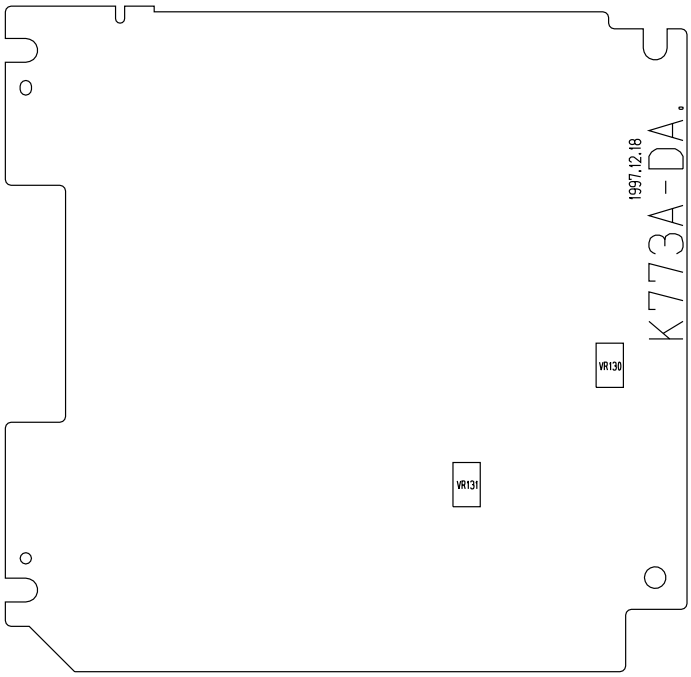
```
LAST MEMORY COMPLETE ! !
 DISP MODE          -    ON
 LAST PAGE          -    1PAGE
AUTOPLAY TIME       -    3SEC
VGA TYPE            -    NORMAL
STORBE MODE         -    AUTO
REC CONTINIOUS      -    CONT.S
REC SELF-TIMER      -    SIGGLE
SCREEN SAVER        -    ON
PLEASE POWER OFF ! !
```

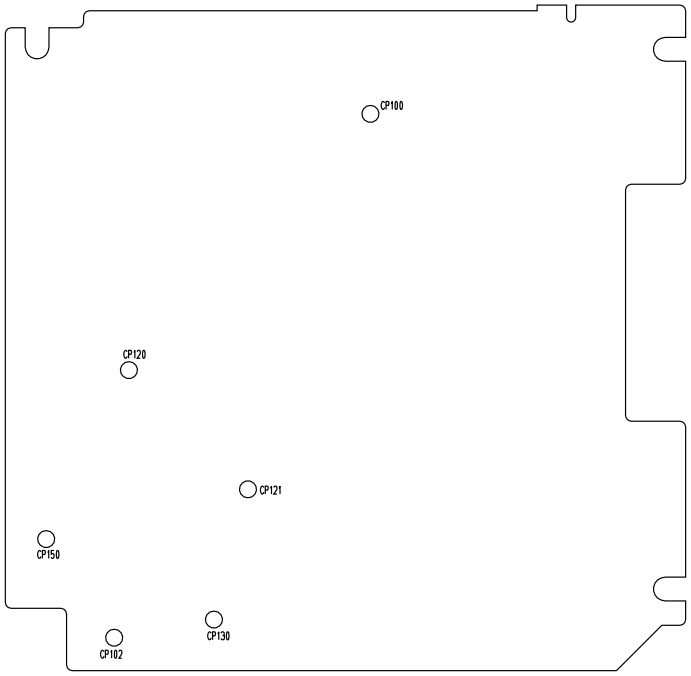
(1) When power is turned on, make sure the display as shown above.

Note: • Even when you follow the command, the picture remains in memory.

2. Adjustment of PCB-DA

Adjustment points of PCB-K773-DA





Adjustment of VCC7, VCC3, voltage check of VCC1

• Supply voltage
CP150 = 5.0 ± 0.05 [V]
CP130 = 3.3 ± 0.05 [V]
CP100 = 5.0 ± 0.05 [V]
(You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

(1) Adjust VR131 for VCC7(CP121) to be 15.0 ± 0.3 V
(2) Adjust VR130 for VEE3(CP120) to be –5.5 ± 0.1 V
(3) Make sure that VCC1(CP102) is 3.2 ± 0.16 V

Operation Check

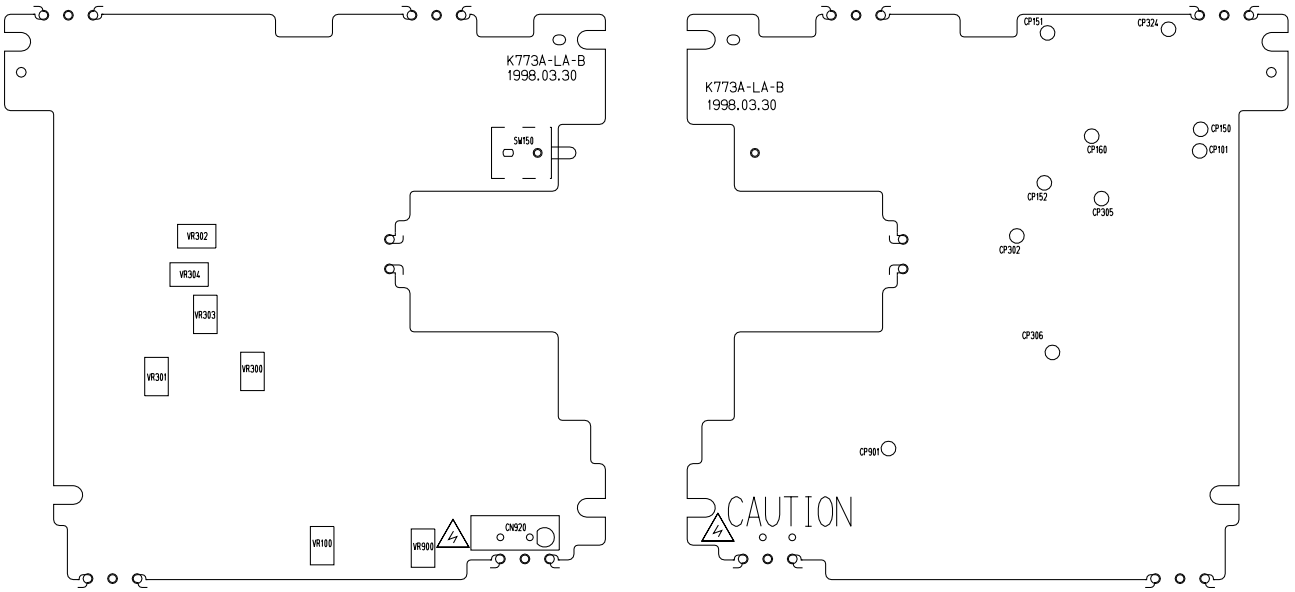
• Supply voltage
CP150 = 5.0 ± 0.05 [V]
CP130 = 3.3 ± 0.05 [V]
CP100 = 5.0 ± 0.05 [V]
(You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

1. Set QV-770 to “PLAY” mode. (Computer communication does not work in “REC” mode.)
2. Connect QV-770 and PC with link cable.
3. Operate adjustment software on MS-DOS.
T773E. EXE
4. Make sure PC’s monitor indicates that loading parameter is complete.

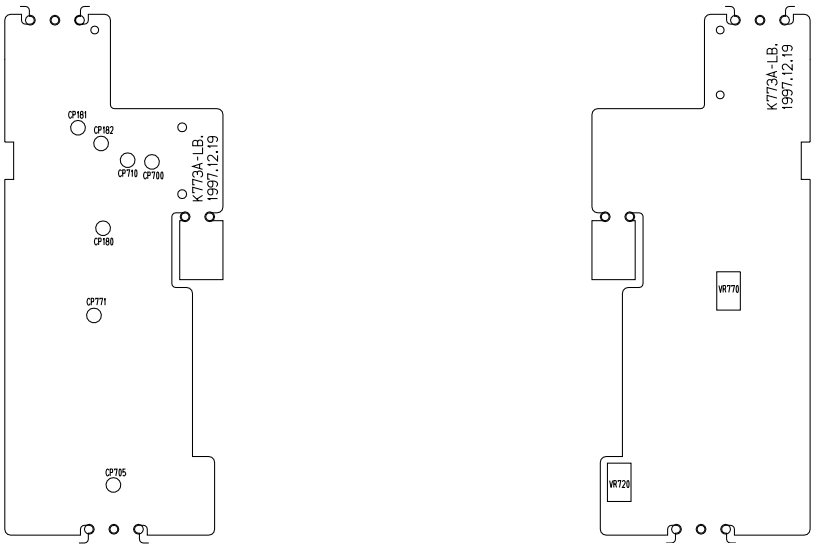
(1) Make sure that serial communication is OK.
(2) Make sure DRAM is OK.
(3) Make sure flash memory is OK.
(4) Make sure OSD is OK.
(5) Make sure Battery Voltage warning level is OK. (value 164 to 243)
(6) Make sure color bar is outputted.
(7) Make sure backlight controller is OK.
(8) Make sure LED controller is OK.
(9) Check key input.
(10) Make sure VIDEO SW controller is OK.
(11) Make sure each button is OK.
(12) Make sure IrDA is OK.
(13) Make sure to turn power OFF.

3. Adjustment of PCB-L (PCB-LA/PCB-LB)

Adjustment points of PCB-K773-LA



Adjustment points of PCB-K773-LB



VCC3, VCC5 voltage check PCB-LA

• Voltage supply
CP151 = 5.0 ± 0.05 V.
(You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

(1) Apply 5.0 ± 0.05 V to CP150.
(2) Make sure VCC3 (CP160) is 3.3 ± 0.1 V and VCC5 (CP152) is 5.0 ± 0.15 V.

VCC2 adjustment and VCC7, VCC8, VEE2 voltage check

• Voltage supply
VCL0(CP101)=5.0±0.05V.
(You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

(1) Apply 5.0 V ± 0.05 V to VCL0 and adjust VR100 so that VCC2 will be 5.0 ± 0.02 V.

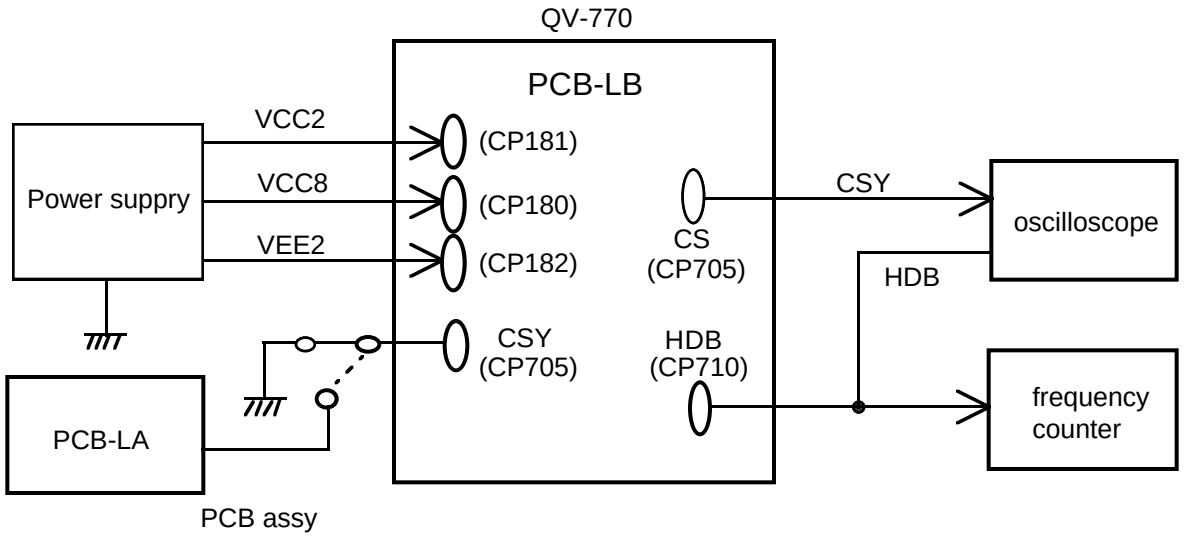
Notes: • VCC7 = 7.3 ~ 8.3 [V], VCC8 = 12.0 ~ 14.0 [V]
• VEE2 = –12.3 ~ –16.7 [V]
In addition, disconnect the power and make sure all output voltages are 0 V.

VCO free run frequency adjustment

• Voltage supply
VCC2=5 V ± 0.05 (V) (CP181).
VCC8 = 13.5 ± 0.05 (V) (CP180).
VEE2 = –15.0 ± 0.05 (V) (CP182).
Connect CP705 (CSY) and CP700 (GNP).
(You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

(1) Monitoring CP710 (HDB) with a frequency counter, adjust VR720 so that the frequency will be 15.734 ± 0.1 [KHz].

Notes: • Disconnect CP705 and CP700, then connect PCB-LA and make sure CP705 (CSY) and CP710 (HDB) are synchronized.
• Keep room temperature at 20 ± 10°C.

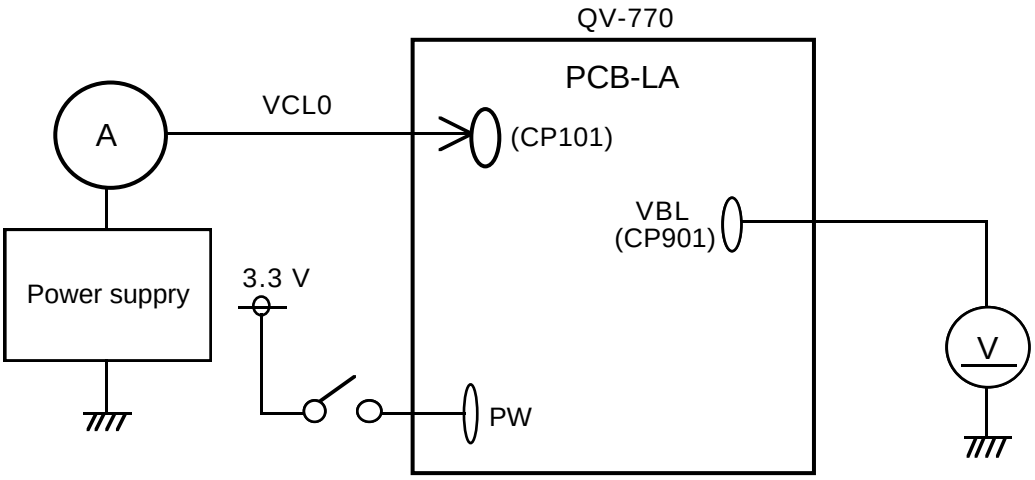


BL drive voltage adjustment

• Voltage supply
VCL0 (CP101)=5.0±0.05[V]
Apply 3.3 V ± 5% to PW.
(You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

(1) Apply 5.0 ± 0.05 V to VCL0 and adjust VR900 so that CP901(VBL) will be 6.1 ± 0.1 V.

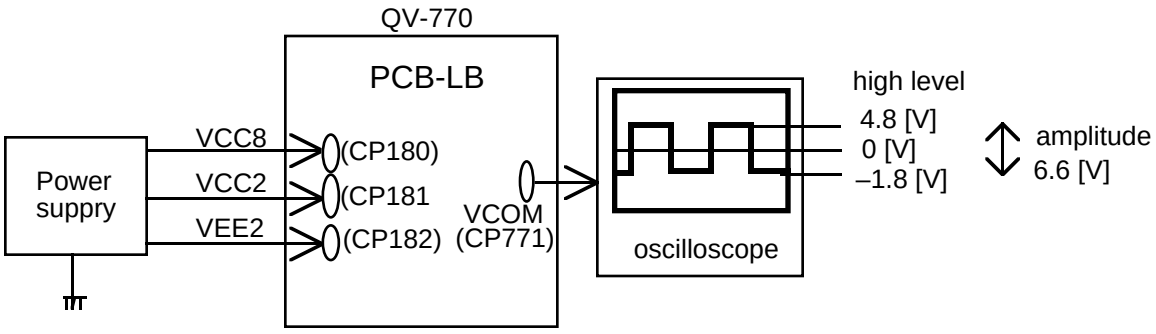
Notes: • Make sure that the current consumption is not abnormally large.
• CN920 is open.



VCOM AC adjustment and VCOM DC coarse adjustment (PCB-LB)

• Voltage supply
VCC2 = 5 V ± 0.05 (V) (CP181).
VCC8 = 13.5 ± 0.05 (V) (CP180).
VEE2 = –15.0 ± 0.05 (V) (CP182).
(You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

(1) Make sure that the amplitude of VCOM output (CP771) is 6.6 ± 0.3 V.
(2) Adjust VR770 so that the potential of VCOM output (CP711) will be 4.8 ± 0.2 V.

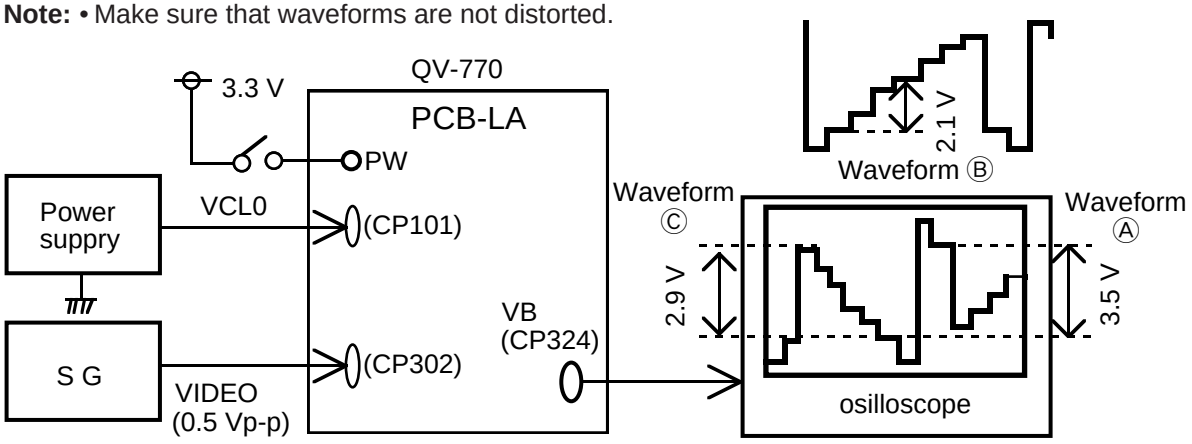


Bright voltage setting and contrast adjustment (PCB-LA)

- Signal contents
  10STEP (NTSC)
  Input oscillation level 0.5 Vp-p to VIDEO terminal (CP302).
- Voltage supply
  VCL0 (CP101)=5 V ± 0.05 (V).
  Apply 3.3 V± 5% to PW.
  Connect PCB-LB and input.
  (You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

(1) Adjust VB waveform (CP324) as shown below by triggering FRP (CP305) signal.
(2) Adjust waveform Ⓐ at 3.5 ± 0.05 V by adjusting RGB, AMP VR(VR302).
(3) Adjust contranst terminal voltage (CP306) at 1.5V ± 0.05V by adjusting contrast VR (VR303).
(4) Keep waveform Ⓑ at 2.1 ± 0.05V by adjusting Bright VR (VR304).
(5) Keep waveform Ⓒ at 2.9 ± 0.05V by adjusting contrast VR (VR303).

Note: • Make sure that waveforms are not distorted.

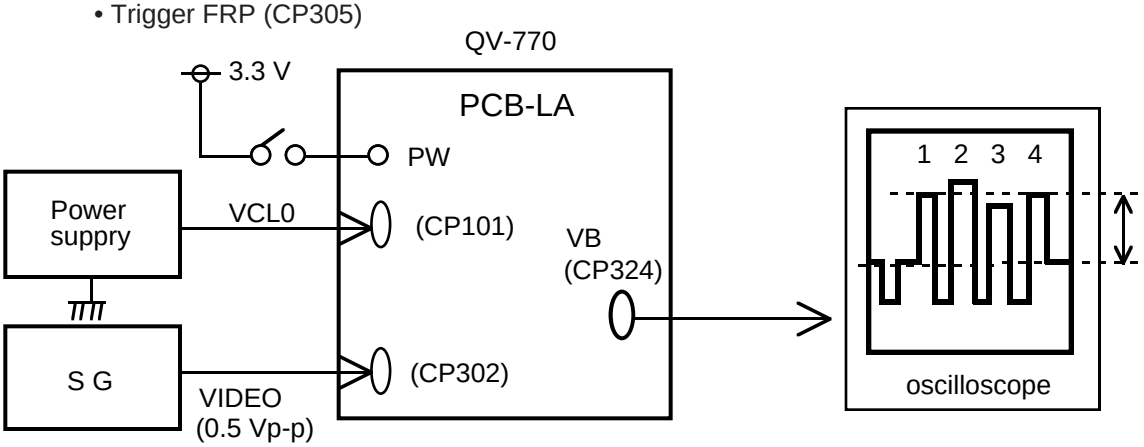


Color adjustment (PCB-LA)

- Signal contents
  Input oscillation level 0.5 Vp-p to VIDEO terminal (CP302).
- Set Power Supply
  VCL0 (CP101) to 5.0 ± 0.05 V.
  Apply 3.3 V ± 5% to PW.
  Input HDB signal by connecting PCB-LB.
  (You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

(1) Adjust VR300 so that the first and fourth pulses of VB(CP324) signal will be the same.

Notes: • Perform this adjustment after contrast adjustment.
• Trigger FRP (CP305)

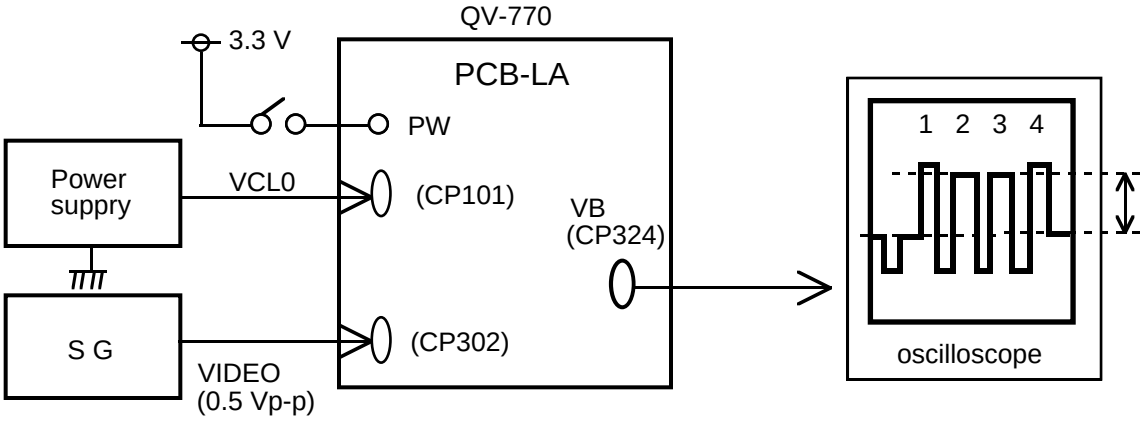


TINT adjustment

• Signal contents
  Input oscillation level 0.5 Vp-p to VIDEO terminal (CP302).
• Set power supply
  VCL0 (CP101) to 5.0 ± 0.05V.
  Apply 3.3 V ± 5 % to PW.
  Input HDB signal by connecting PCB-LB.
  (You can use an AC adaptor however, for the checking after repairs, apply above mentioned voltages.)

(1) Adjust VR301 so that the second and third pulses of VB (CP324) signal level will be the same.

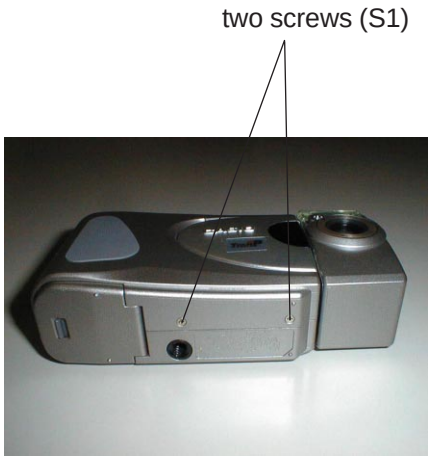
Notes: • Perform this adjustment after contrast adjustment.
• Trigger FRP (CP305).



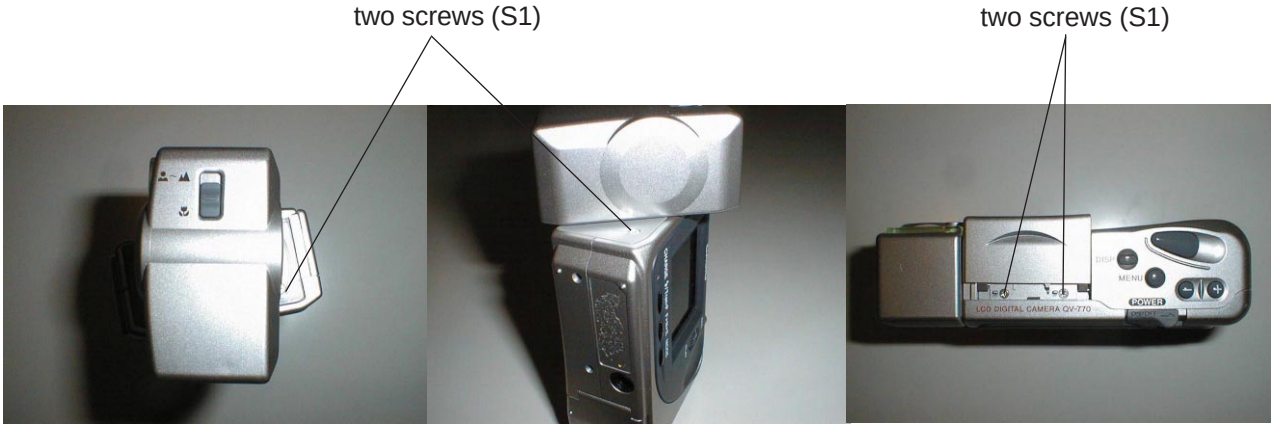
DISASSEMBLY

Numbers in the parethesis correspond to the numbers in EXPLODED VIEW.

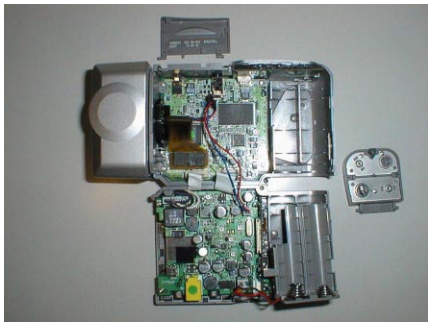
1. Unscrew two screws (S1) on the bottom of the camera.



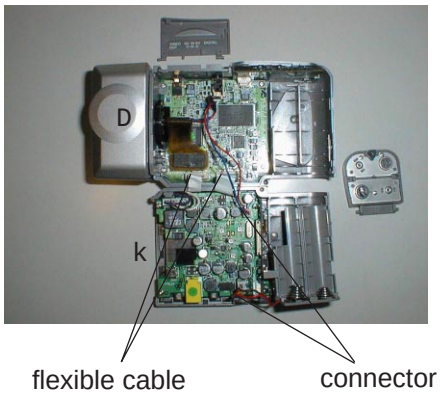
2. Rotate the camera unit and unscrew two screws (S1).
   Open console cover (2), then unscrew two screws (S1).



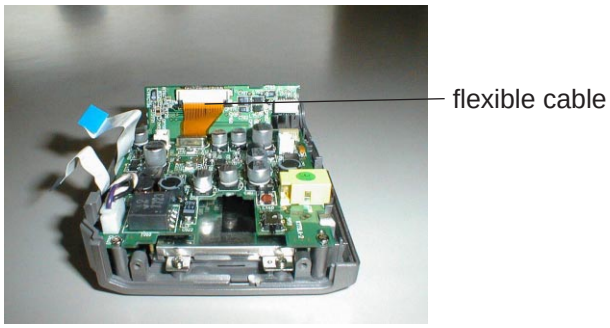
3. Separate upper case (14) and lower case (25). Remove console (2) and battery cover (41).

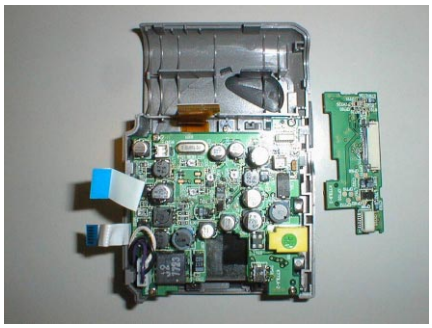


4. Disconnect two flexible cables from PCB-DA ass'y and remove two connectors from PCB-L ass'y.

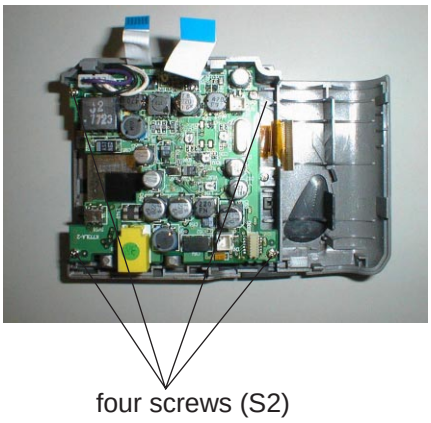


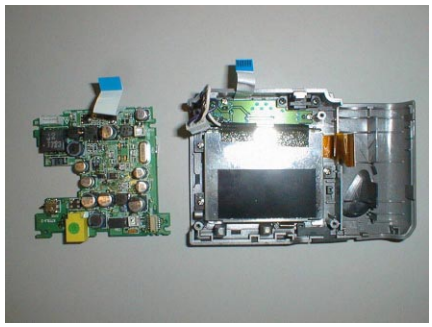
5. Disassembly of upper case.
   Remove flexible cable from PCB-L ass'y, then remove SUB773-LB2 ass'y.



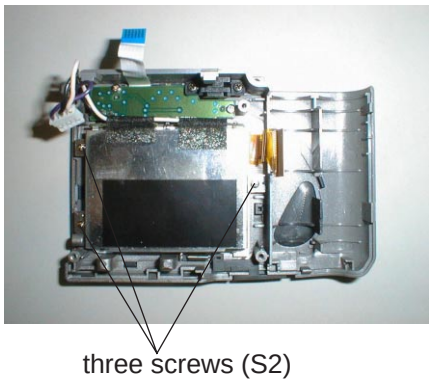


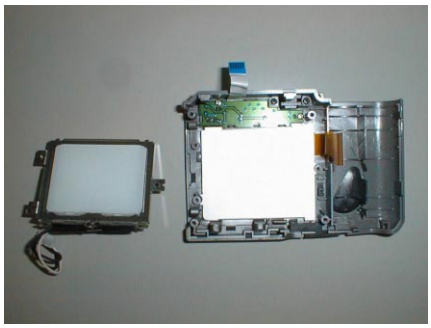
   Unscrew four screws (S2) fixing PCB-L ass'y then remove it.



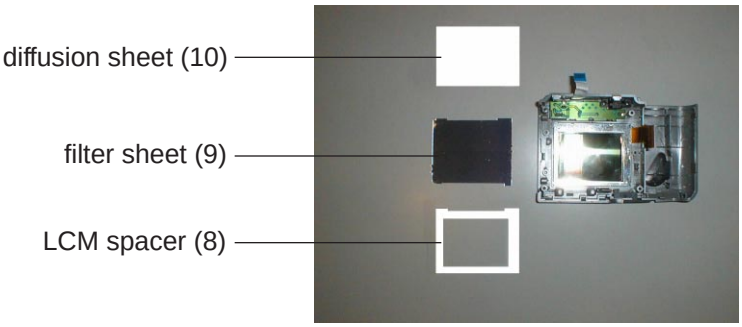


Unscrew three screws (S2) fixing backlight, then remove the backlight.

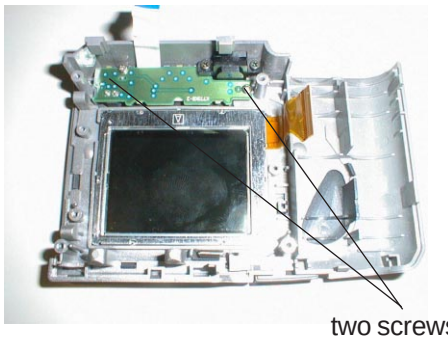


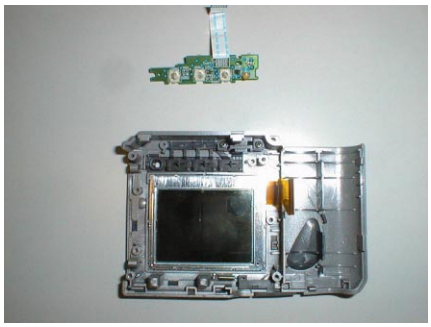


When assembling, make sure to put each sheet in order.

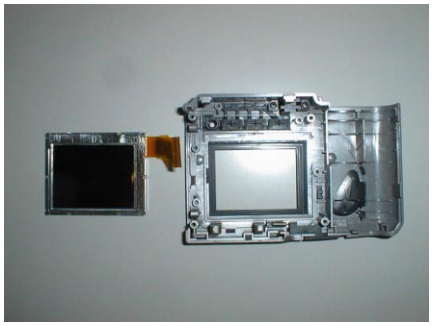


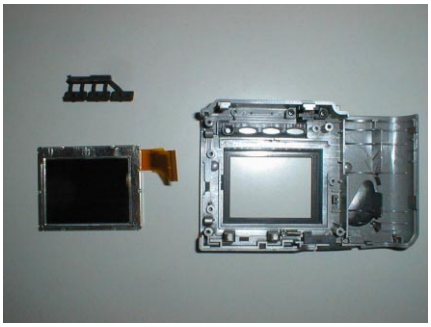
Remove two screws (S2) fixing PCB-K773-KB ass'y (20), then remove PCB-K773-KB ass'y (20).



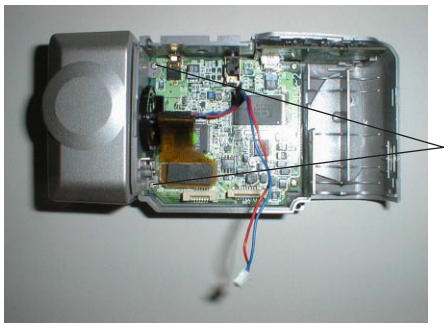


Remove LCD (6). When assembling, make sure reverse side of the LCD is free from dust.



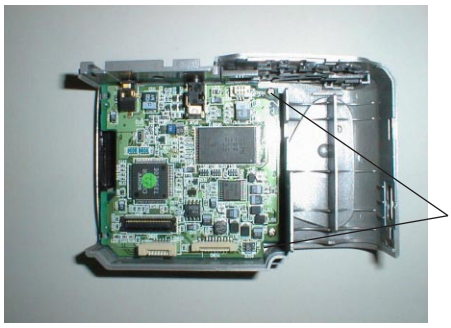


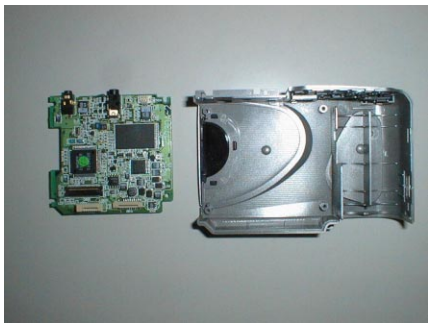
6. Disassembly of Main case.
   Unscrew two screws (S4) fixing camera unit, then remove camera unit.



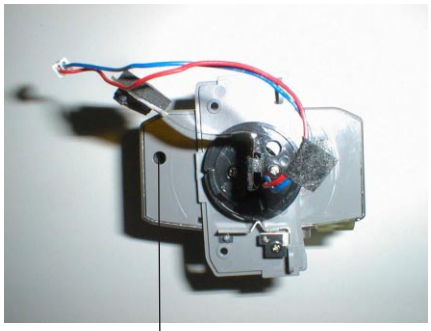
Remove PCB-K773A-KA (43).

Unscrew two screws (S4) fixing PCB-K773-DA ass'y (24), then remove PCB-K773-DA ass'y (24).

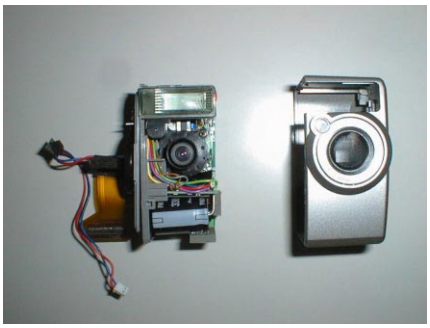




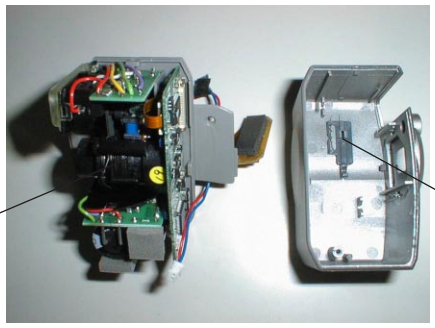
7. Disassembly of Camera Unit.
   Unscrew one screw (S1), then disassemble as shown.



one screw (S1)



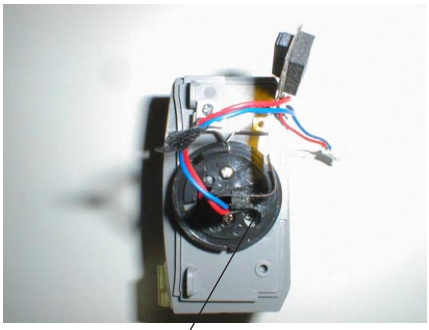
When assembling convex part of CCD should be placed with concave part of F knob.



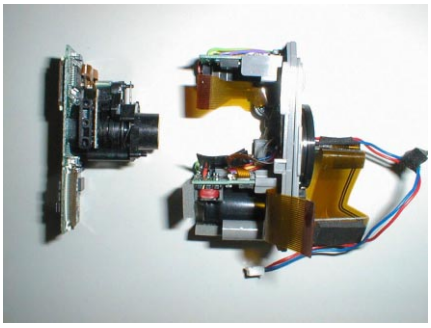
convex part

concave part

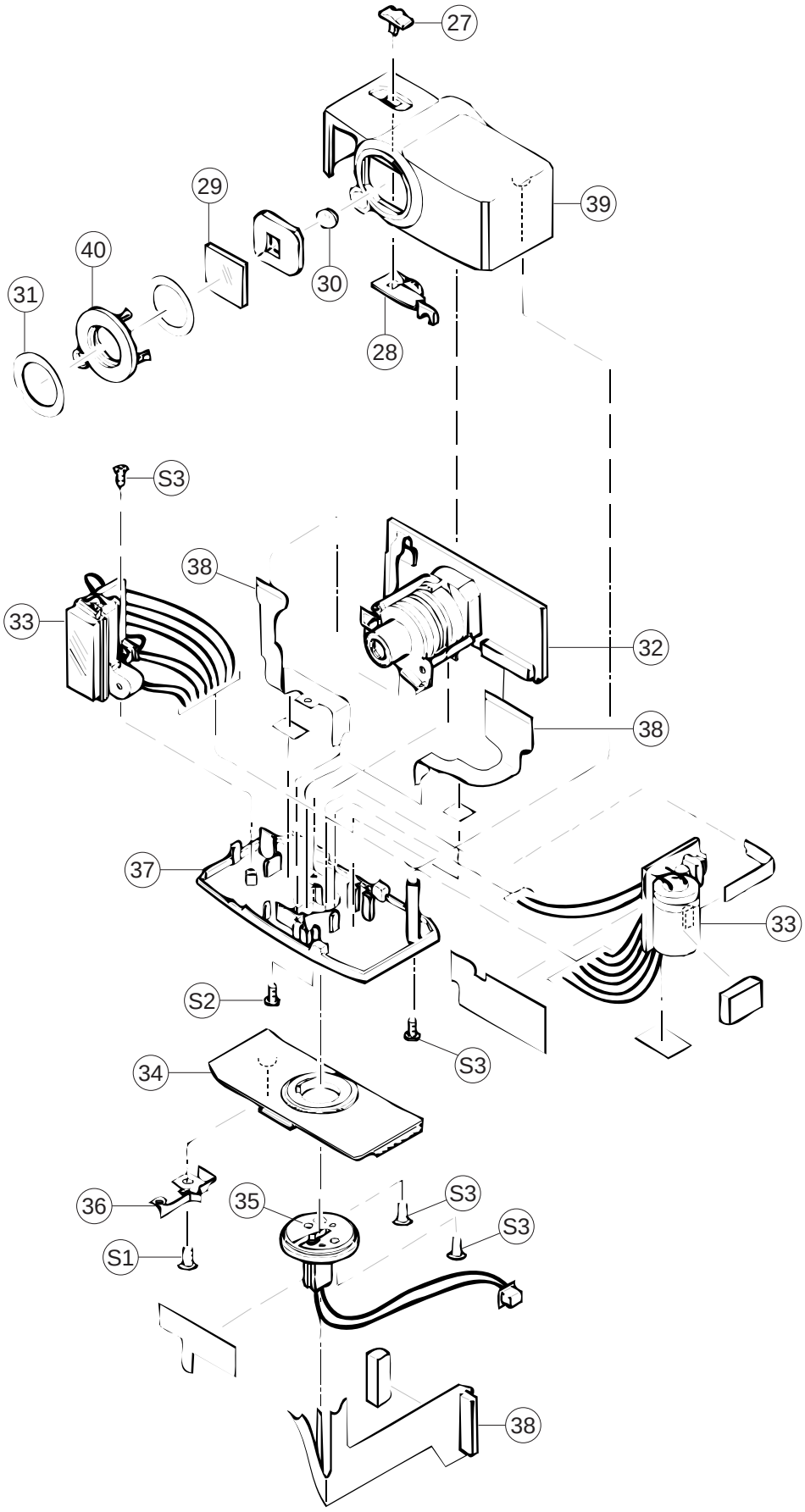
Unscrew one screw (S3) and disconnect two flexible cables, them remove CCD unit.

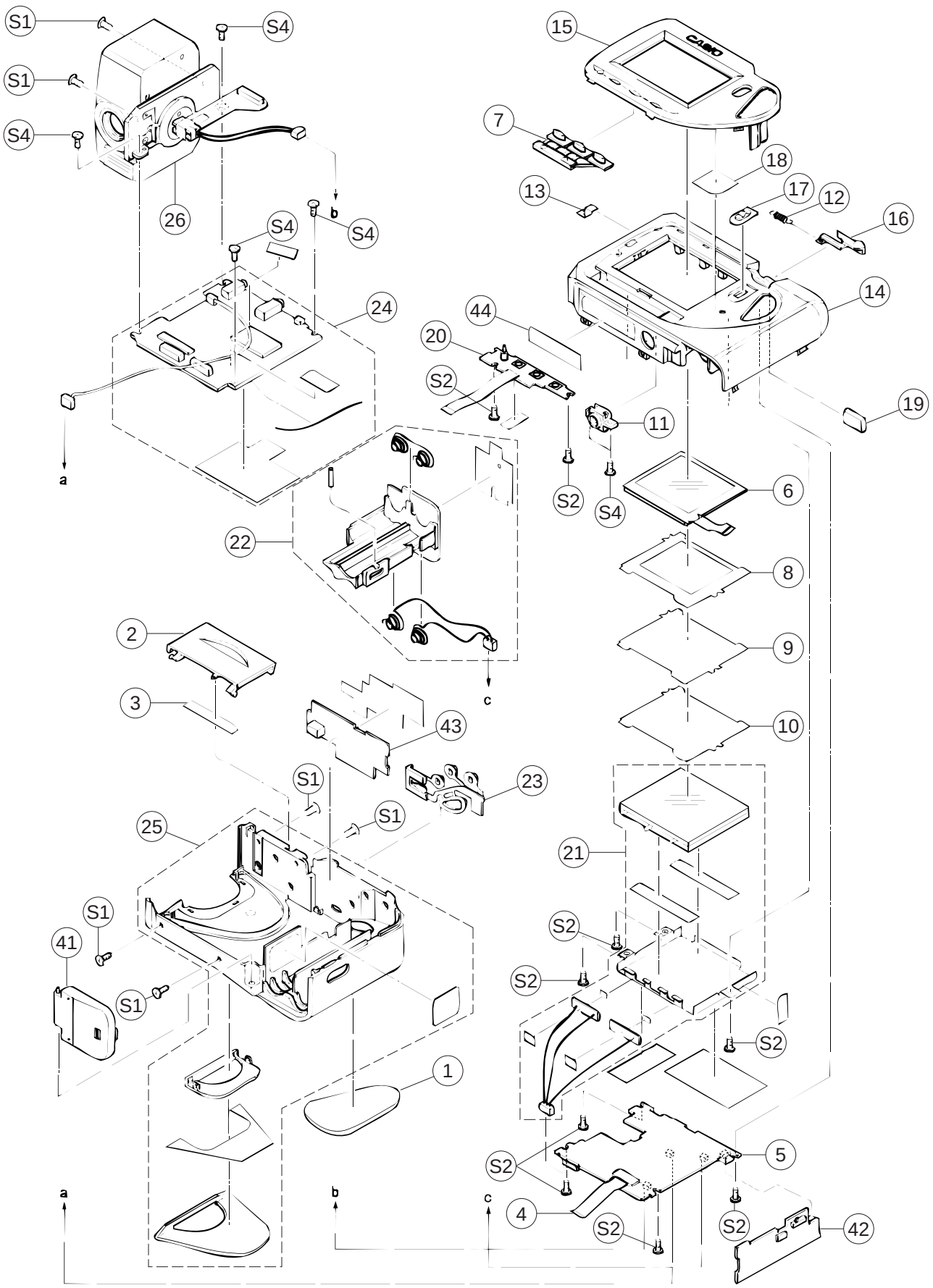


one screw (S3)



EXPLODED VIEW




S1
S4
S1
S4
26
S4
S4
b
24
a
22
2
3
43
23
S1
S1
25
S1
41
S1
1
a
b
c
15
CASIO
7
18
13
17
12
16
14
44
20
S2
19
11
S2
S4
6
8
9
10
21
S2
S2
S2
5
S2
4
S2
S2
42
c

PARTS LIST

DIGITAL PCB ASS'Y

Item	Code No.	Parts Name	Specification	Applicable	Q	R
	ICs					
IC507	2012 5747	IC	MB81V16165B50LPFTN		1	C
IC508	2012 4347	IC	TC58V32FT		1	C
IC400	2114 5808	IC	CXD3120R		1	C
IC582	2105 3633	IC	TC7S00FU-TE85L		1	C
IC530	2116 0119	IC	BA10358F-T1		1	C
IC550	2105 6398	IC	LB1846M-TE-L		1	C
IC515	2105 6378	IC	MM1228XFBE		1	C
IC150	2114 5806	IC	TK11232BMCL		1	C
IC531	2105 6361	IC	XC61AC2402MR		1	C
IC502	2114 5810	IC	S-80930ALMP-DAT-T2		1	C
IC503	2114 5810	IC	S-80930ALMP-DAT-T2		1	C
IC131	2105 5999	IC	XC6383F501MR		1	C
IC510	2105 5712	IC	TC7S04FU(TE85L)		1	C
IC580	2105 2170	IC	TC4S66F-TE85L		1	C
IC590	2105 5719	IC	TC7W32FU(TE12L)		1	C
IC586	2105 3521	IC	TC7S08FU(TE85L)		1	C
IC588	2105 5215	IC	TC7W74FU(TE12L)		1	C
IC500	2114 5838	IC	MB91181PBT-G		1	C
IC560	2114 5839	IC	RPM851-E4		1	C
IC584	2114 5817	IC	S-80936ANMP-DD0-T2		1	C
IC130	2114 5607	IC	TK11830MTL		1	C
IC540	2012 5950	IC	UPD6466GS-514-E1		1	C
IC505	2012 6054	IC	LH5G85T0		1	C
	JACKS					
JK510	3501 8197	JACK	HSJ1169-019010		1	C
JK515	3501 5439	JACK	HSJ1456-01-210		1	C
	TRANSISTORS					
Q515	2254 0448	FET/CHIP	2SK1580-T1		1	C
Q134	2253 0434	TRANSISTOR/CHIP	2SD1328-T(TX)		1	C
Q169	2259 2716	TRANSISTOR/CHIP	2SC4617-TLR		1	C
Q520	2259 2716	TRANSISTOR/CHIP	2SC4617-TLR		1	C
Q522	2259 2716	TRANSISTOR/CHIP	2SC4617-TLR		1	C
Q130	2251 0847	TRANSISTOR/CHIP	2SB1386-T100R		1	C
Q133	2250 1579	TRANSISTOR/CHIP	2SA1774-TLR		1	C
Q521	2250 1579	TRANSISTOR/CHIP	2SA1774-TLR		1	C
Q588	2250 1579	TRANSISTOR/CHIP	2SA1774-TLR		1	C
Q508	2259 2731	TRANSISTOR/DIGITAL	DTA114EE-TL		1	C
Q510	2259 2731	TRANSISTOR/DIGITAL	DTA114EE-TL		1	C
Q131	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	C
Q132	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	C
Q507	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	C
Q511	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	C
Q539	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	C
Q580	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	C
Q583	2259 2715	TRANSISTOR/DIGITAL	DTC144EE-TL		1	C
	DIODES					
D130	7101 1194	DIODE/CHIP	MA111-(TX)		1	C
D132	7101 1194	DIODE/CHIP	MA111-(TX)		1	C
D131	2390 1379	DIODES/SCHOTTKY/CHIP	MA729-(TX)		1	C
D510	2390 1379	DIODES/SCHOTTKY/CHIP	MA729-(TX)		1	C
D513	2390 1379	DIODES/SCHOTTKY/CHIP	MA729-(TX)		1	C
	OSCILLATORS					
H500	2590 2720	OSCILLATOR	DSX840GA-23.9M		1	C
H502	2590 2736	OSCILLATOR	CX-11F-14.3M		1	C
	VARIABLE RESISTORS					
VR130	2775 1491	RESISTOR/SEMI-FIXED	EVM-1XSX50B54		1	C
VR131	2775 1491	RESISTOR/SEMI-FIXED	EVM-1XSX50B54		1	C

Notes: Q – Quantity used per unit
R – Rank

LINEAR PCB ASS'Y

Item	Code No.	Parts Name	Specification	Applicable	Q	R
	ICs					
IC545	2105 6425	IC	XC61AN3802MR		1	C
IC150	2105 3374	IC	RS5RM5045A-T1		1	C
IC300	2114 5840	IC	IR3Y29BM		1	C
IC160	2114 5841	IC	R1220V332B-E2		1	C
IC900	2114 5842	IC	S-8327E50MC-EKE-T2		1	C
IC920	2105 6463	IC	TC7ST02FU-TE85L		1	C
IC100	2105 6464	IC	XC6371F453PR		1	C
	SWITCH					
SW150	3412 2002	SWITCH	SPVC2-1-T		1	C
	TRANSISTORS					
Q950	2253 0700	FET/CHIP	2SK1485-T1		1	C
Q160	2114 5807	FET/CHIP	SI3441DV-T1		1	C
Q100	2253 0308	TRANSISTOR/CHIP	2SD1119-R(TX)		1	C
Q900	2253 0308	TRANSISTOR/CHIP	2SD1119-R(TX)		1	C
Q300	2253 0133	TRANSISTOR/CHIP	2SD1819A-R(TX)		1	C
Q543	2259 2716	TRANSISTOR/CHIP	2SC4617-TLR		1	C
Q541	2251 0926	TRANSISTOR/CHIP	2SB1412TLQ		1	C
Q540	2250 1579	TRANSISTOR/CHIP	2SA1774-TLR		1	C
Q101	7101 5791	TRANSISTOR/CHIP	DTA144EE-TL		1	C
Q102	2259 2715	TRANSISTOR/CHIP	DTC144EE-TL		1	C
Q150	2259 2715	TRANSISTOR/CHIP	DTC144EE-TL		1	C
Q151	2259 2715	TRANSISTOR/CHIP	DTC144EE-TL		1	C
Q901	2259 2715	TRANSISTOR/CHIP	DTC144EE-TL		1	C
	DIODES					
D110	7101 1194	DIODE/CHIP	MA111-(TX)		1	C
D111	7101 1194	DIODE/CHIP	MA111-(TX)		1	C
D113	7101 1194	DIODE/CHIP	MA111-(TX)		1	C
D101	2390 2450	DIODE/CHIP	SC016-2-TE12RA		1	C
D112	2390 1379	DIODES/SCHOTTKY/CHIP	MA729-(TX)		1	C
D150	2390 1379	DIODES/SCHOTTKY/CHIP	MA729-(TX)		1	C
D900	2390 1379	DIODES/SCHOTTKY/CHIP	MA729-(TX)		1	C
D160	2390 1379	DIODES/SCHOTTKY/CHIP	MA738-(TX)		1	C
	CONVERTER & TRANSFORMER					
T100	3065 0713	CONVERTER/DC-DC	6CA-02		1	C
T900	3012 1176	TRANSFORMER/INVERTER	ETJ-09K002AM		1	C
	FUSES					
FU152	3632 0732	FUSE	KE25		1	A
FU150	3632 0724	FUSE	KE13		1	A
FU151	3632 0724	FUSE	KE13		1	A
	VARIABLE RESISTORS					
VR300	2775 1484	RESISTOR/SEMI-FIXED	EVM-1XSX50B24		1	C
VR301	2775 1484	RESISTOR/SEMI-FIXED	EVM-1XSX50B24		1	C
VR304	2775 1484	RESISTOR/SEMI-FIXED	EVM-1XSX50B24		1	C
VR302	2775 1491	RESISTOR/SEMI-FIXED	EVM-1XSX50B54		1	C
VR303	2775 1491	RESISTOR/SEMI-FIXED	EVM-1XSX50B54		1	C
VR100	2775 1505	RESISTOR/SEMI-FIXED	EVM-1XSX50B55		1	C
VR900	2775 1505	RESISTOR/SEMI-FIXED	EVM-1XSX50B55		1	C
	OSCILLATOR					
H300	2590 1239	OSCILLATOR	HC-49/U-S-A		1	C
	JACK					
JK100	3501 6755	JACK/POWER	HEC3600-010120		1	C

Notes: Q – Quantity used per unit
R – Rank

SUB LINEAR PCB ASS'Y

Item	Code No.	Parts Name	Specification	Applicable	Q	R
	SWITCH					
SW700	3412 1106	SWITCH/SLIDE	SSSS212-12		1	B
	ICs					
IC770	2114 5805	IC	NJM3414AV-TE1		1	C
IC700	2012 5983	LSI	CM7018L3-T4N		1	C
IC780	2105 4501	IC	RN5RL30AA-TR		1	C
	DIODES					
D700	7101 1194	DIODE/CHIP	MA111-(TX)		1	C
D721	2360 3060	DIODE/ZENER/CHIP	MA8100-H(TX)		1	C
D720	2390 1358	DIODE/VARICAP	MA329-(TX)		1	C
	VARIABLE RESISTORS					
VR770	2775 1827	RESISTOR/SEMI-FIXED	EVM-1XSX50B13		1	C
VR720	2775 1484	RESISTOR/SEMI-FIXED	EVM-1XSX50B24		1	C

TOP KEY PCB ASS'Y

Item	Code No.	Parts Name	Specification	Applicable	Q	R
	SWITCHES					
SW800	3412 2002	SWITCH	SPVC2-1-T		1	C
SW801	3412 1995	SWITCH	SKQRAA-T		1	C
SW802	3412 1995	SWITCH	SKQRAA-T		1	C
SW803	3412 1995	SWITCH	SKQRAA-T		1	C
SW804	3412 1995	SWITCH	SKQRAA-T		1	C
SW805	3412 1995	SWITCH	SKQRAA-T		1	

FRONT KEY PCB ASS'Y

Item	Code No.	Parts Name	Specification	Applicable	Q	R
	SWITCHES					
SW806	3412 1995	SWITCH	SKQRAA-T		1	C
SW807	3412 1995	SWITCH	SKQRAA-T		1	C
SW808	3412 1995	SWITCH	SKQRAA-T		1	C
	TRANSISTOR					
Q800	7911 0126	TRANSISTOR/DIGITAL	DTC144EUA-T106		1	C
	LED					
D800	2370 1396	LED	SLC-22DU3F		1	C

Notes: Q – Quantity used per unit
R – Rank

MAIN BODY CONPONENT

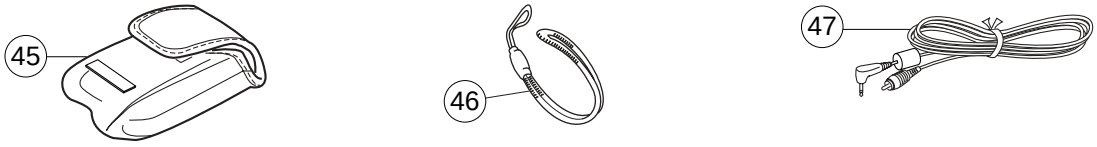
Item	Code No.	Parts Name	Specification	Applicable	Q	R
1	6612 9180	GRIP	K340982-1		1	X
2	6612 9250	COVER/CN	K240813-1		1	C
3	6612 9350	LABEL/COVER	K441321-1		1	X
4	6612 9540	CABLE/FLAT	K441330-1		1	X
5	6613 0020	PCB ASSY/LINEAR	K341115*1		1	B
6	2725 1347	MODULE/LCD	COD18T1022RN		1	B
7	6612 9220	BUTTON/FRONT	K340986-1		1	C
8	6612 9310	SPACER/LCM	K441256-1		1	X
9	6612 9320	SHEET/FILTER	K441257-1		1	C
10	6612 9330	SHEET/DIFFUSION	K441258-1		1	C
11	6611 4390	SCREW/FOR STAND	R340024-1		1	X
12	6611 4410	SPRING	R440045-1		1	X
13	6612 6160	PLATE/EARTH	R440256-1		1	X
14	6612 9110	CASE/UPPER	K140419-1		1	X
15	6612 9140	PANEL/DP	K240809-1		1	C
16	6612 9190	KNOB/POWER	K340983-1		1	C
17	6612 9200	KNOB/REC	K340984-1		1	C
18	6612 9370	TAPE/DOUBLE SIDE	K441334-1		1	X
19	6612 9580	CUSHION	K441337-1		1	X
20	6613 0039	PCB ASSY/KEY/FRONT	K441366*1		1	C
21	6613 0040	BL ASSY	K341120*1		1	B
22	6613 0037	HOLDER ASSY/BATTERY	K341121*1		1	B
23	6612 9210	BUTTON/TOP	K340985-1		1	C
24	6613 0750	PCB ASSY/DIGITAL	K341271*1		1	B
25	6613 0041	CASE/LOWER	K240905*1		1	X
26	6613 0042	CASE/CAMERA	K240912*1		1	X
27	6612 9430	KNOB/FOCUS	K340996-1		1	C
28	6612 9440	LEVER/FOCUS	K340997-1		1	C
29	6612 9451	PROTECTOR/LENS	K441262A-1		1	X
30	6612 9460	COVER/SENSOR	K441263-1		1	X
31	6612 9470	PANEL/LENS	K341018-1		1	X
32	1014 9857	CL UNIT	LS-025D		1	B
33	1014 9858	STROBE UNIT	CA-KX-773		1	B
34	6612 9160	CASE/SIDE	K240811-1		1	X
35	6612 9170	STOPPER	K240812-1		1	X
36	6612 9270	SPRING/C	K441253-1		1	X
37	6612 9410	CASE/CAM B	K240817-1		1	X
38	6612 9530	CABLE	K240793-1		1	X
39	6613 0060	CASE/CAM	K140421-1		1	X
40	6613 0070	COVER/PROTECTOR	K240818-1		1	X
41	6613 0035	BATTERY COVER	K341119*1		1	B
42	6613 0012	PCB ASSY/LINEAR/SUB	K140464*2		1	B
43	6612 9099	PCB ASSY/KA/TOP	K441465*1		1	C
44	6612 9430	PLATE/RATING	K441282-1		1	X
S1	5861 3692	SCREW	PS3 FLAT1.7X4 NI		7	C
S2	5860 0301	SCREW	BT3 BIND 1.7X3.5 NI		10	C
S3	5861 3690	SCREW	BT3 BIND 1.7X4.0 BK		4	C
S4	5860 0091	SCREW	BT3 BIND 1.7X4.5 BK		6	C

Notes: Q – Quantity used per unit
R – Rank

ACCESSORY

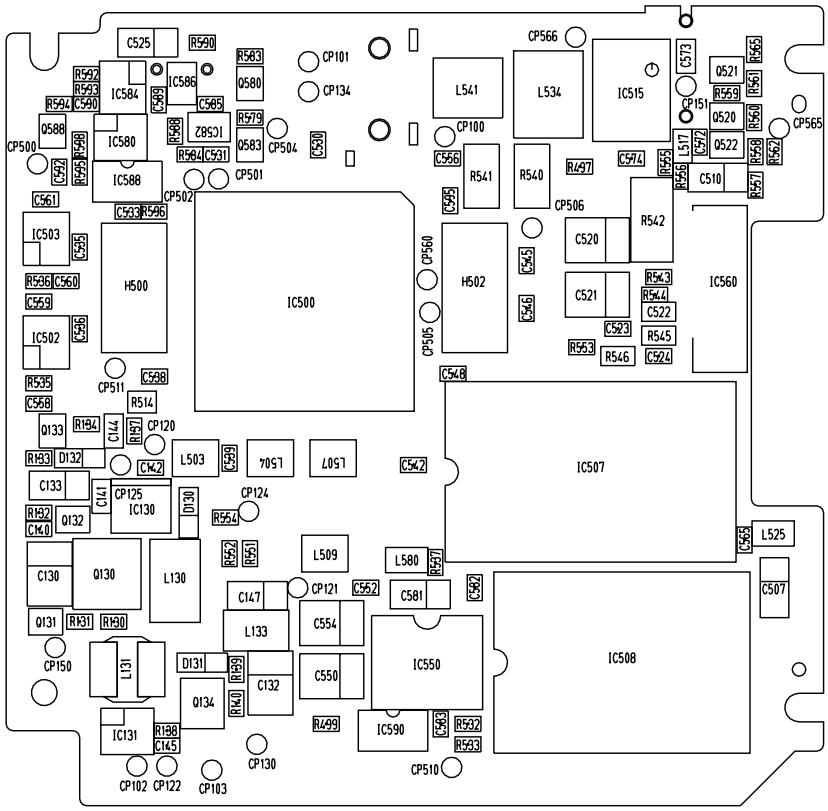
Item	Code No.	Parts Name	Specification	Applicable	Q	R
45	1014 9871	CASE/SOFT	SC-773		1	X
46	5861 3578	STRAP	ST-K775		1	X
47	1014 8773	CORD/VIDEO	VC-K723-FC		1	X

Notes: Q – Quantity used per unit
R – Rank



PRINTED CIRCUIT BOARDS

D board (PCB-K773A-DA)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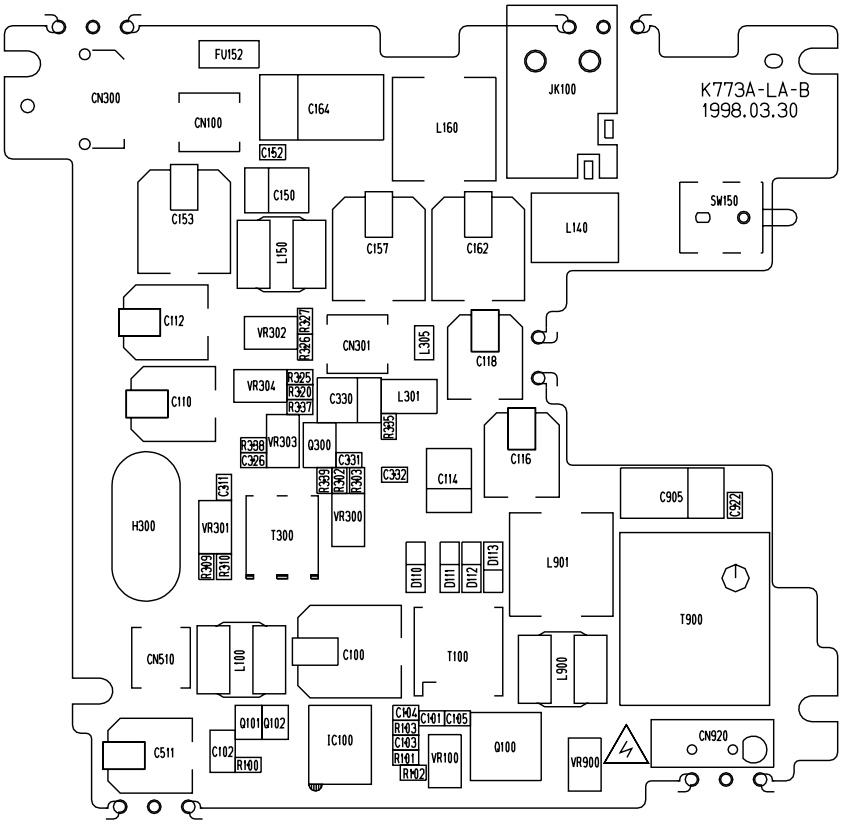
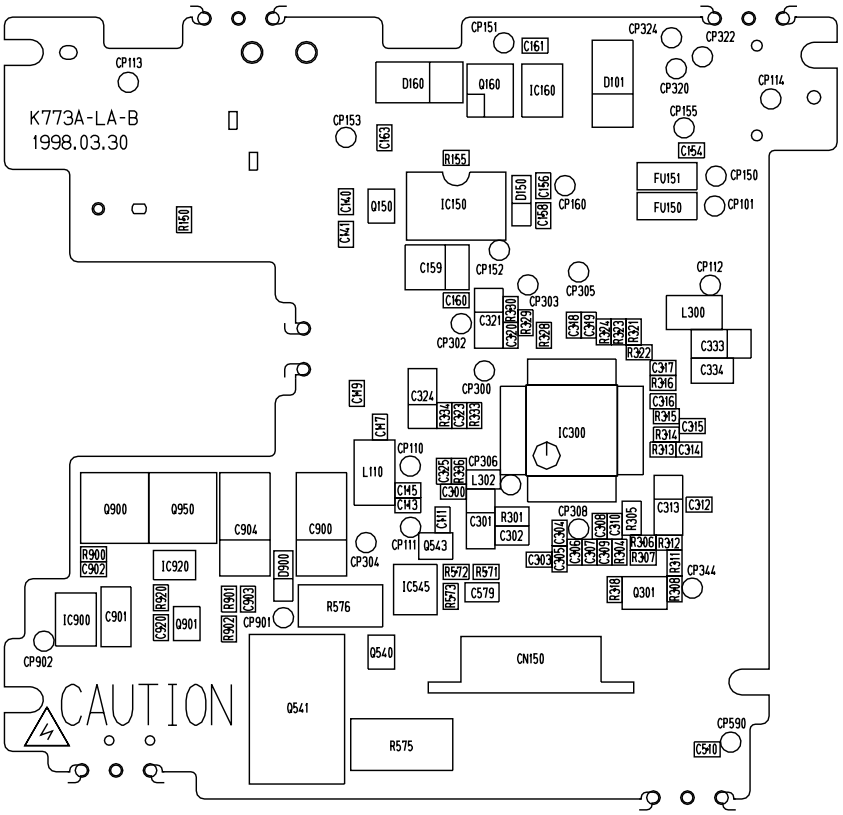
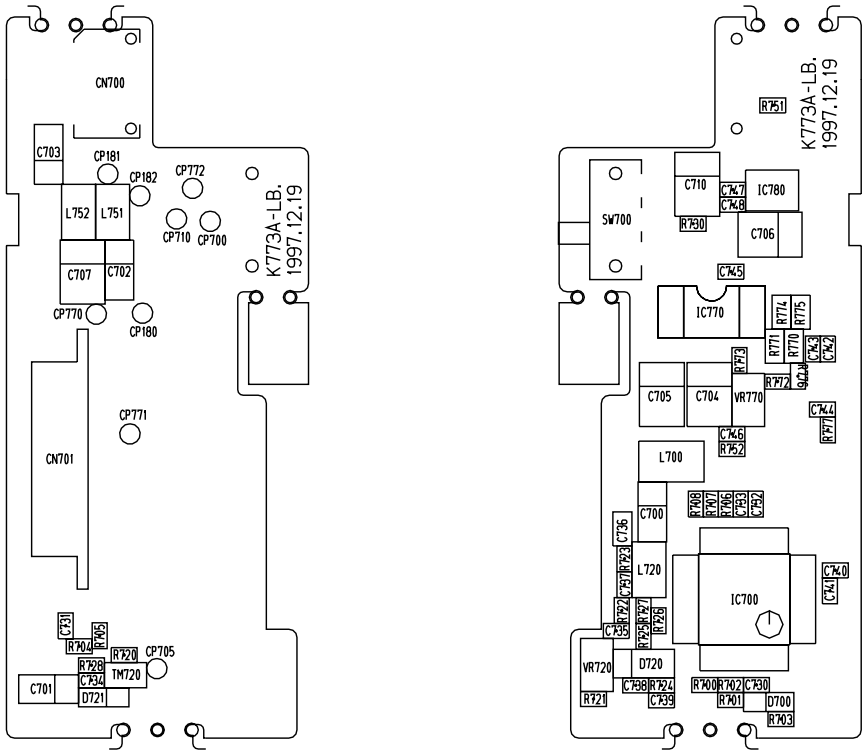
L board (PCB-K773A-LA)

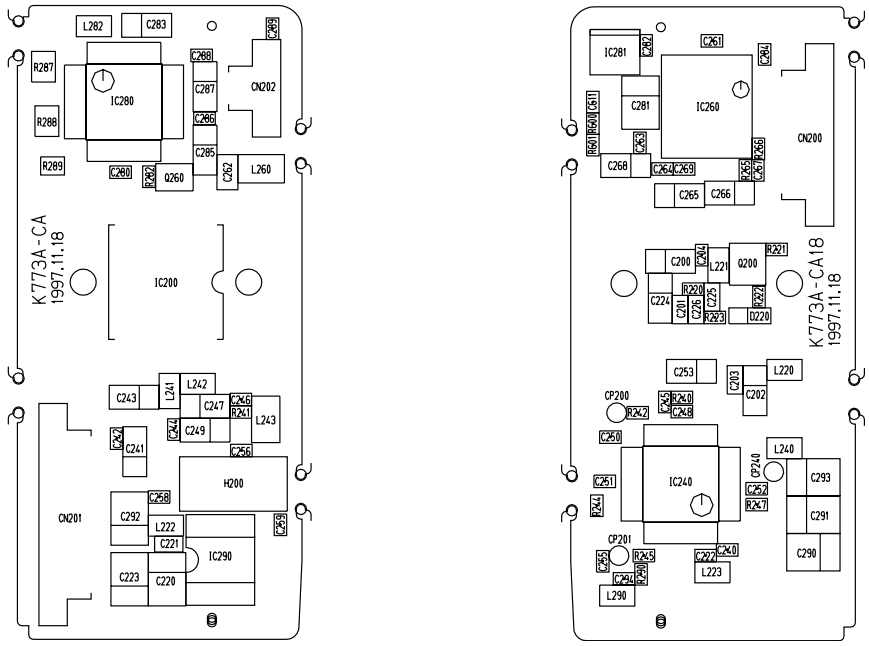




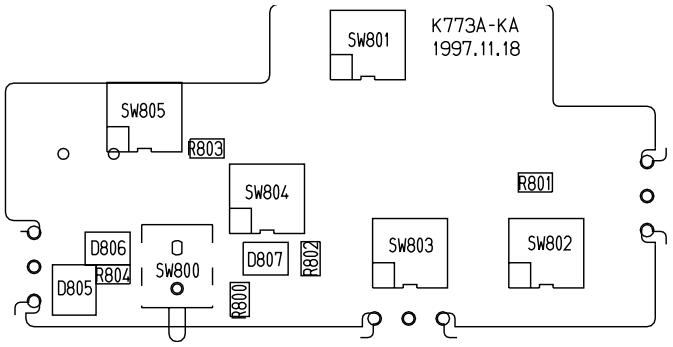
L board(PCB-K773A-LB)

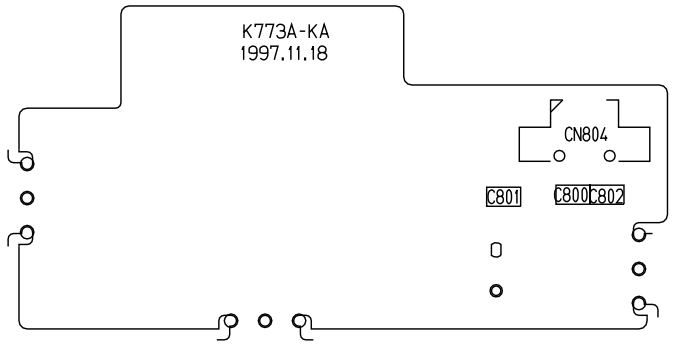


CA board (PCB-K773A-CA)

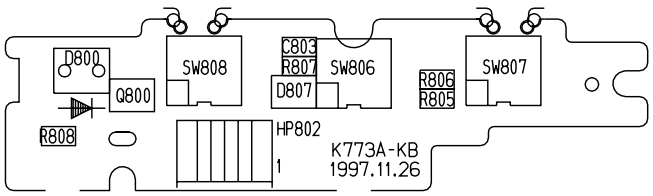


K board (PCB-K773A-KA)



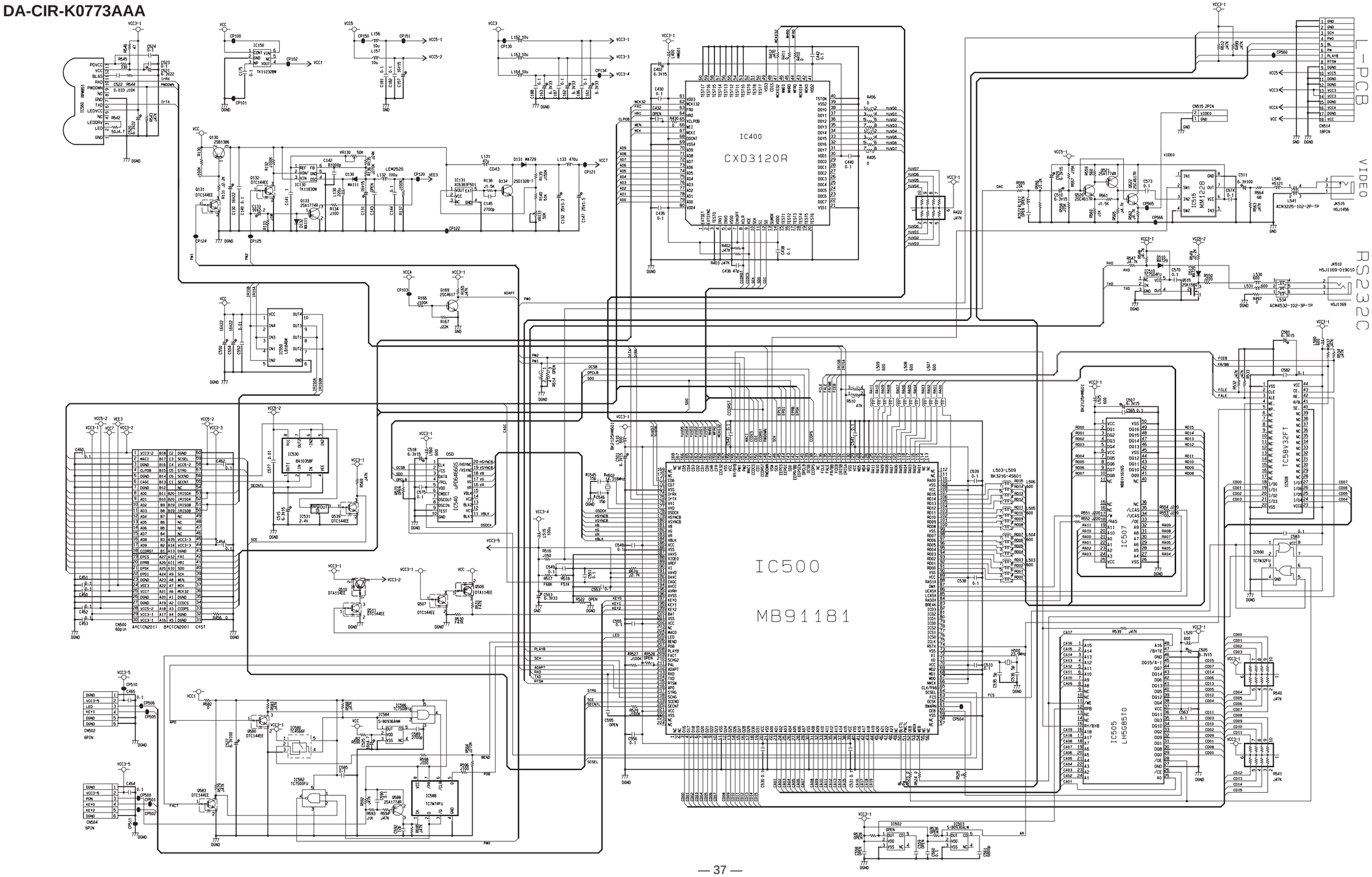


(PCB-K773A-KB)

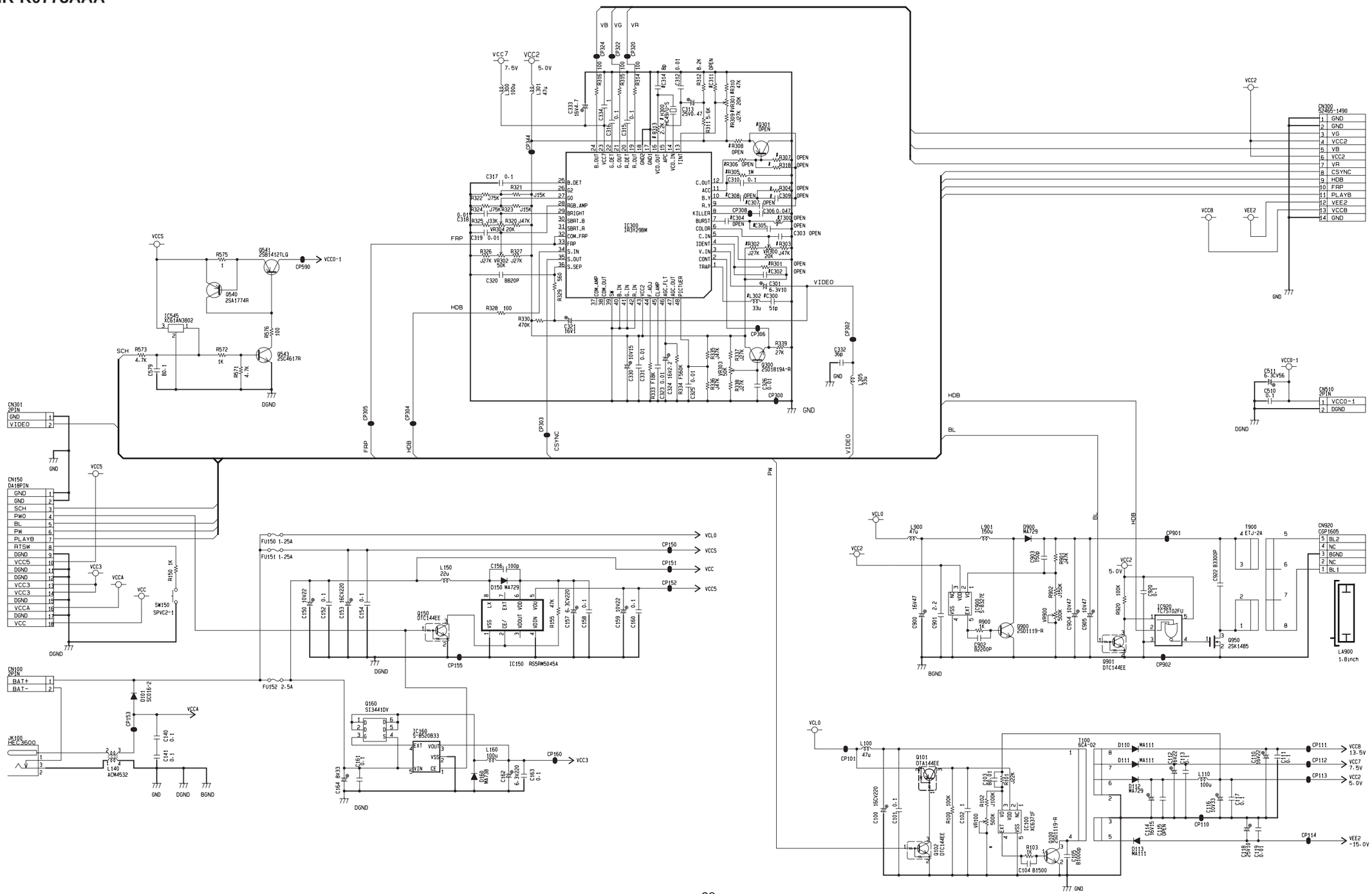


SCHEMATIC DIAGRAMS

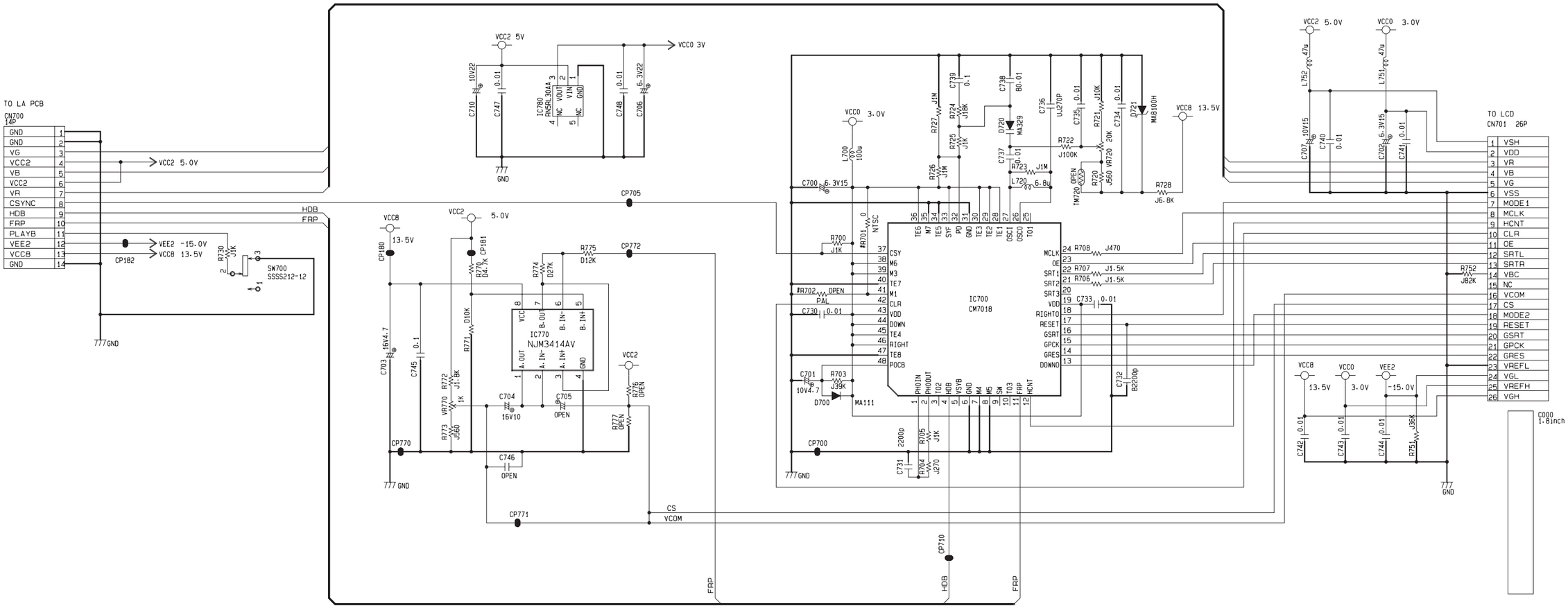
DA-CIR-K0773AAA



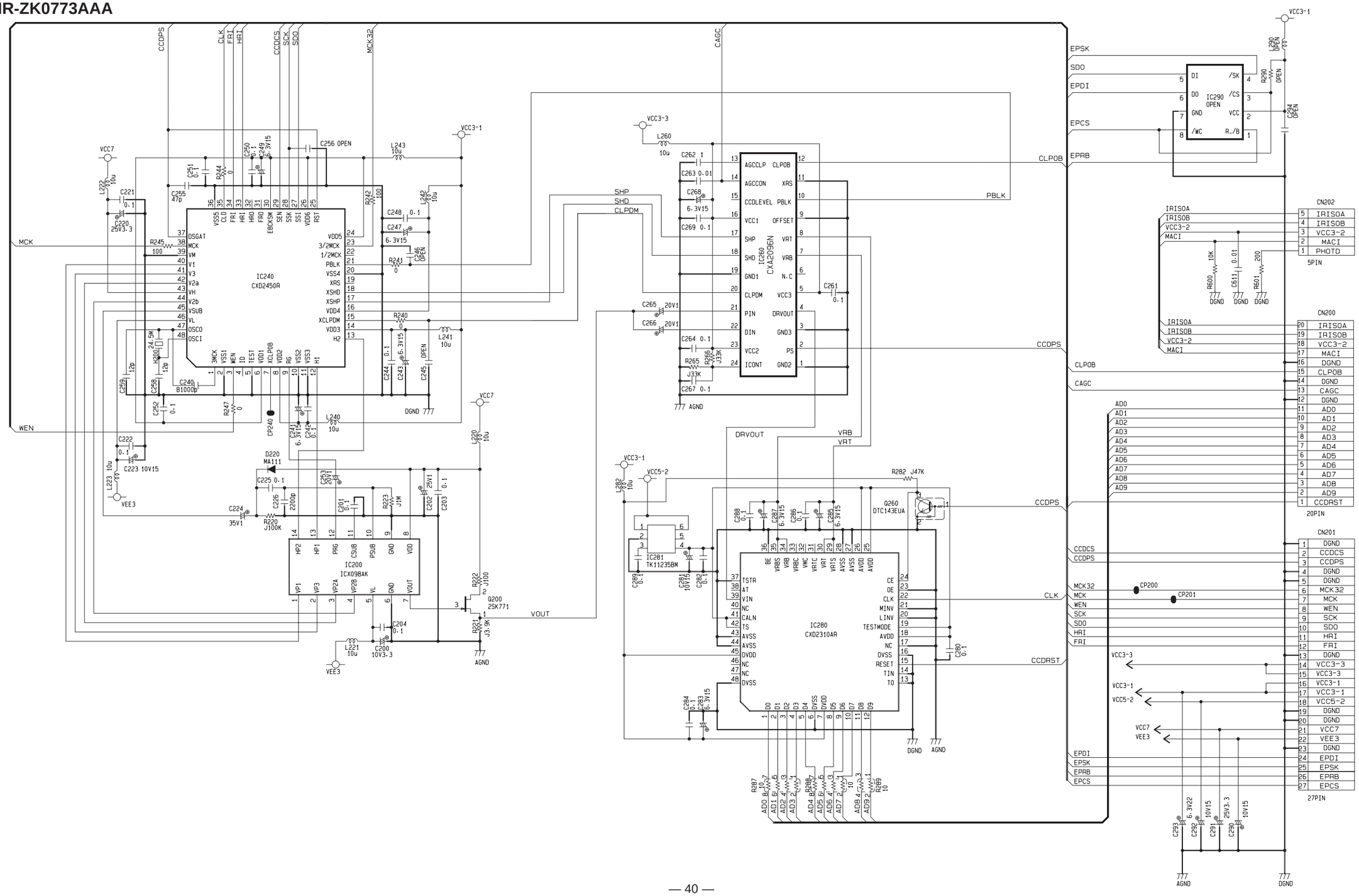
LA-CIR-K0773AAA



LB-CIR-ZK0773AAA



KX-CIR-ZK0773AAA



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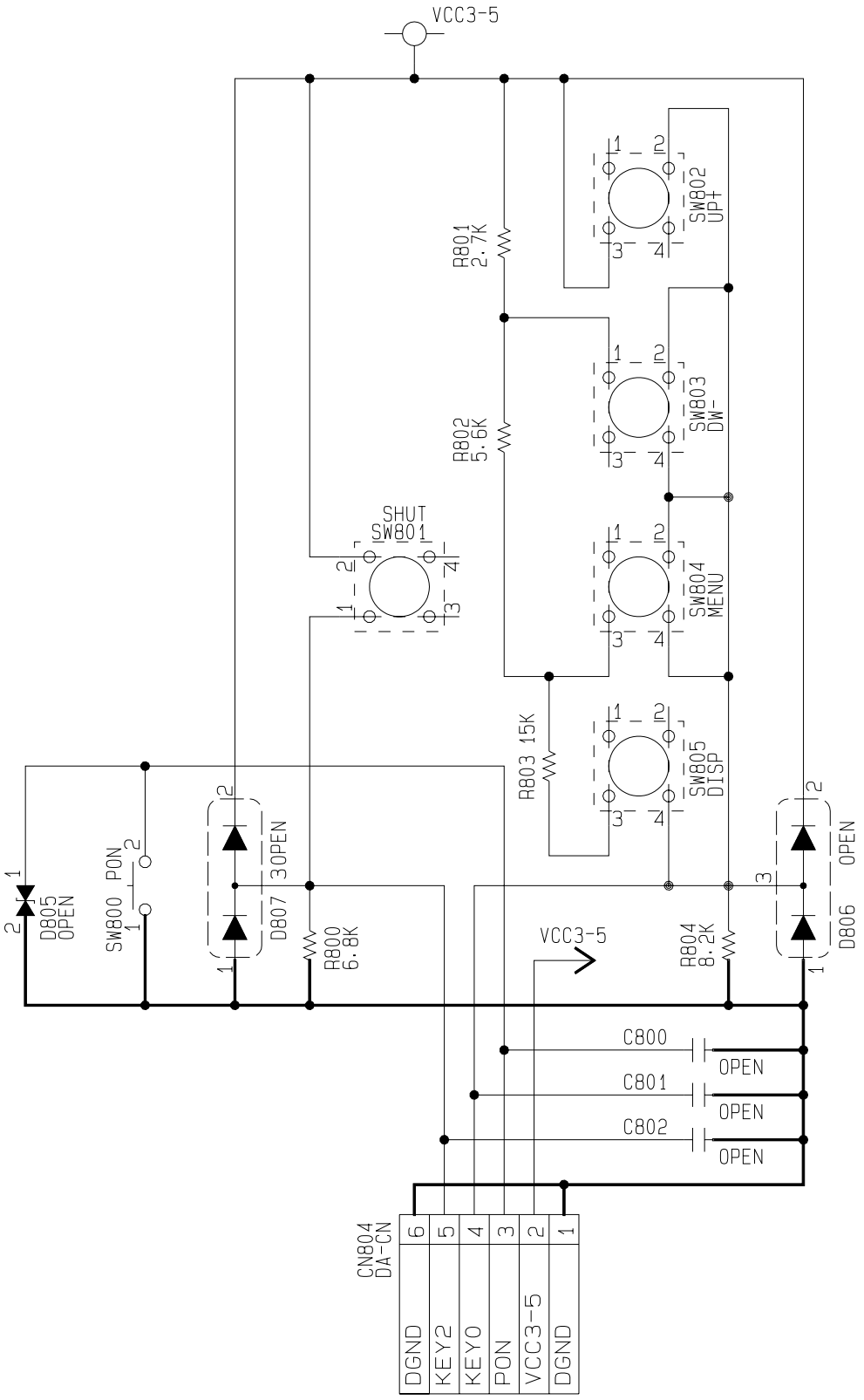
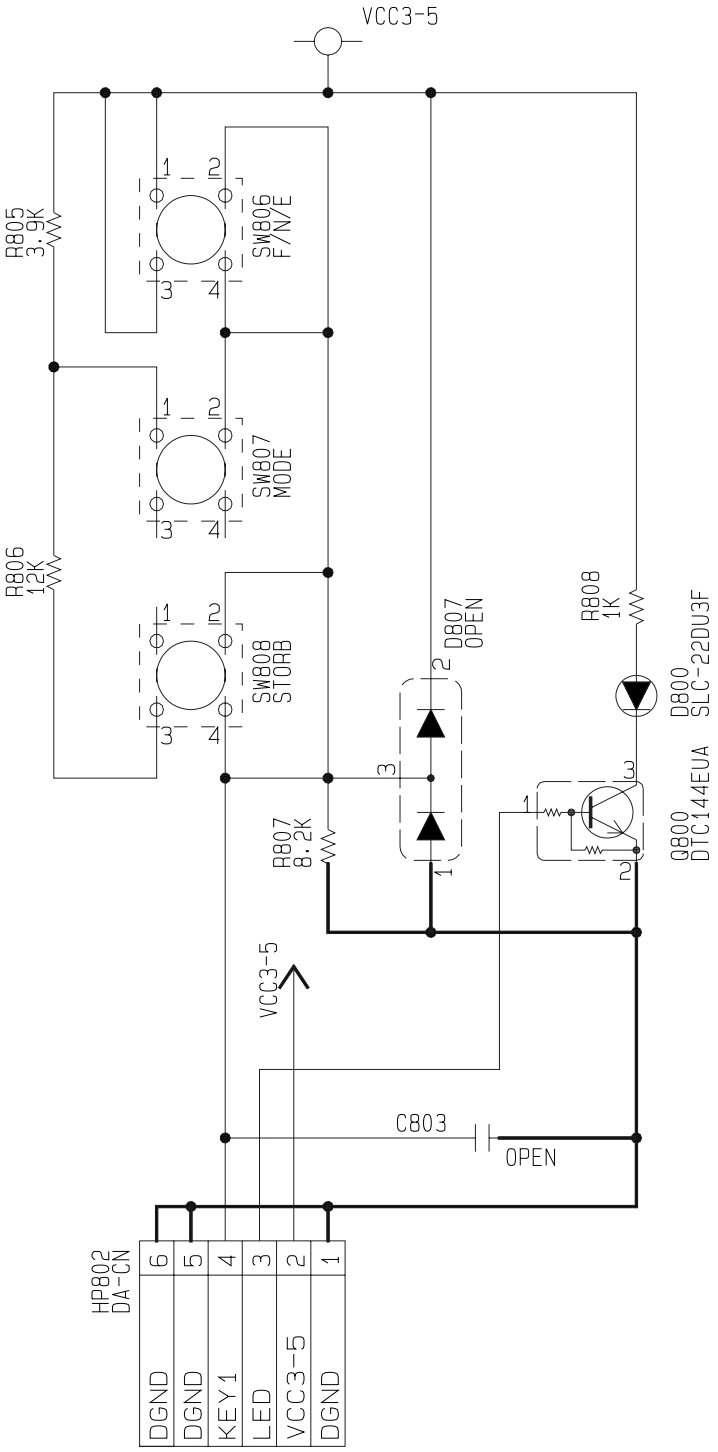


KB-CIR-K0773AAA



TROUBLE SHOOTING

Trouble 1 : No display

• LCD connector or BL connector is OPEN.
→ Insert connector. If broken, replace it.

Trouble 2 : Erratic display when using strobe.

• Interruption when using strobe.
→ Refer to “1-4. Strobe check”.

Trouble 3 : Cannot switch between REC/PLAY.

• Broken slide switch of PCB-L ass’y or improper assemble.
→ Replace switch or re-assemble.

Trouble 4 : Short battery life.

• Refer to User’s Manual (P15, 16, 75).
→ Varies depending on manufacturer, kind of battery, temperature, storage period.
The time specified in user’s manual is generalization and is not guaranteed.

Trouble 5 : When switching from PLAY to REC LCD display turns blue and key input does no work. (Unable to turn power off)

• Faulty connection between PCB-DA ass’y and camera unit or camera unit failure.
→ Reconnect connector or replace either L case ass’y or CL unit or CAM case unit.

Trouble 6 : Faulty display (not using strobe).

• Bad connector connection between PCB-DA ass’y and camera unit.
→ Reconnect the connector.

• EEPROM data error.
→ Operate color parameter.

• Camera unit failure.
→ Replace CL unit or CAM case unit.

CASIO TECHNO CO.,LTD.
Overseas Service Division

8-11-10, Nishi-Shinjuku
Shinjuku-ku, Tokyo 160-0023, Japan